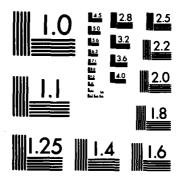
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FINAL REPORT O INSTALLATION RESTORATION PROGRAM PHASE II — CONFIRMATION MCCLELLAN AFB, CALIFORNIA

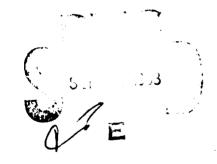
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VOLUME II

PREPARED FOR

US AIR FORCE OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY BROOKS AFB, TEXAS

JUNE 1983



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ENGINEERING-SCIENCE

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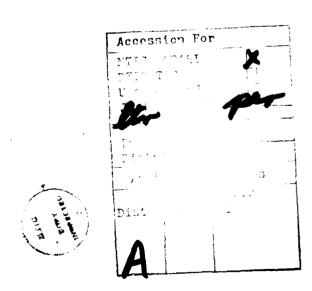


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FINAL REPORT

INSTALLATION RESTORATION PROGRAM

PHASE II - CONFIRMATION

MCCLELLAN AFB, CALIFORNIA

VOLUME II

Prepared for

US AIR FORCE
OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY
BROOKS AFB, TEXAS

June 1983

Prepared by

Engineering-Science
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APPENDIX H

SAMPLING EVENTS FOR STAGE I AND STAGE II MONITORING WELLS

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SAMPLING EVENTS
STAGE I MONITORING WELLS

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WELL NO. 168

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	Water Lev	Samples	
Date	(feet)	Sampling Procedure	Taken
6/16/82	97.7	Pump ran for 7 minutes until well ran dry (9:05 - 9:12). At 1:30, there were only two feet of water in the well. Bailer was used to sample. Bailer was rinsed in acetone and DI water.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (half full for</pre>
8/17/82	100.0	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling. Samples were obtained using double sampler technique. Water samples appeared turbid. Both the bailer and samplers were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyethylene bottle (cyanide)
10/8/82	100.29	Not enough water was initially in well for pumping. Using the bailer (1200-ml), ten bailer volumes were removed prior to sampling. Samples were obtained using the glass/Teflon sampler prerinsed with acetone and DI water. One sampler volume was collected and extruded before actual sample was obtained.	3 VOA bottles (TCE only)

S. 1887

WELL NO. 178

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
6/15/82	94.0	Pump ran for 2 minutes at 3 gpm. About one casing volume was pumped out; well ran dry.	
6/16/82	94.1	Pumped for 6 minutes before sampling from Teflon tubing.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/17/82	96.2	Mot enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) removed prior to sampling (about one casing volume). Samples were obtained using double sampler technique. Water samples appeared turbid. Both the bailer and samplers were rinsed with acetone and DI water.	1 gallon bottle (pest/herb/PCB's) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 185

O

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
6/15/82	90.7	Pump ran for 15 minutes, stopped for 5 minutes; ran again for 10 minutes before sampling from Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/16/82	92.9	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Water samples were slightly turbid. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb/PCB's) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 198

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
4/28/82	79.8	There were about 2 feet of water in the well. Samples were taken with bailer. Bailer rinsed with acetone and DI water.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/16/82	81.3	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Water samples appeared slightly turbid. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 20S

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
4/28/82	80.3	Well was silty. Mailer was used to sample water for VOA bottle and part of GC/MS bottle.	1 gallon bottle (part full for GC/MS) 1 VOA bottle
5/25/82	83.5	Well was redeveloped and sampled with bailer since previous sample was insufficient. Hydrocarbons were on top of water surface, about 1/2 inch in thickness. The VOA sample broke. Bailer rinsed with Freon and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
6/8/82	84.0	Resampled VOA bottle with bailer. Hydrocarbons still present. Bailer rinsed with Freon and DI water.	1 VOA bottle
8/11/82	84.4	Strong hydrocarbon odor present. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling. Water in well was initially clear with hydrocarbon layer on surface. Water became silty during bailing. Samples were obtained using the glass/ Teflon sampler. Both the bailer and sampler were rinsed with Freon, acetone, and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 WOA bottles 1 quart polyeth- ylene bottle (cyanide) 1 quart bottle (aliphatics)

WELL NO. 218

Date	Water Let (feet)		Samples Taken
6/15/82	78.3	Pump did not work. Bailed out about 1-1/2 gallons before sampling. Sampled with bailer. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (half full for GC/MS) 1 VOA bottle
8/13/82	79.3	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 22S

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
6/4/82	84.9	Sampled with bailer; about 1-1/2 gallon well water was removed before sampling. The VOA sample was broken. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
6/18/82	85.9	About 1 gallon of well water removed. Resampled with bailer. Bailer rinsed with acetone and DI water.	1 VOA bottle
8/13/82	86.8	Not enough water was initially in well for pumping. Five bailer volumes (approximately 1-1/2 gallons) were removed from well until bailer stopped working. Samples were obtained using glass/Teflon sampler. Water samples appeared slightly turbid. Both the bailer and sampler were rinsed with acctone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottles (cyanide)

WELL NO. 238

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
4/28/82	84.2	Water was silty at bottom of well; pump did not work. Bailer was used to bail about 1-1/2 gallons of well water. Samples were taken with bailer. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle
8/13/82	90.1	Not enough water was initially in well for pumping. On 8/12/82, ten bailer volumes (approximately 3 gallons) were removed, but the well was not sampled. On 8/13/82, five additional bailer volumes were removed (approximately 1-1/2 gallons) prior to sampling. Together, about 1-1/2 casing volumes were removed. Samples were taken with the glass/Teflon sampler; sample water was turbid. Both the bailer and sampler were rinsed with acetone and DI water.	

WELL NO. 24S

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
4/28/82	85.2	Pump ran for 2 minutes and stopped. Samples were taken with bailer. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/12/82	89.8	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Sampled water was turbid. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 258

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Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
6/15/82	94.7	Pump ran for 2 minutes, stopped for 5 minutes, ran again for 3 minutes and stopped for 5 minutes. Samples were taken from the Teflon tubing. One-half gallon of the GC/MS sample was taken with the bailer. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/12/82	96.4	Not enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Sampled water was turbid. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 268

Mater Level			Samples
Date	(feet)	Sampling Procedure	Taken
4/28/82	95.7	Water was very silty. The plastic bailer was used to remove 3 gallons of well water. Sample was taken with bailer. Bailer rinsed with acetone and DI water.	1 VOA bottle
4/29/82	95-2	Bailer was used for sampling. Well was silty. Bailer rinsed with acetone and DI water.	1 gallon bottle (GC/MS)
6/16/82	96.5	Well had to be resampled for pesticides/herbicides as the well was too silty in April. It was redeveloped. Bailer was used for sampling. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals)
8/11/82	97.5	Not enough water was initially in well for pumping (<10 feet); the pump was tried but failed to remove water. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling; the well was bailed almost dry. Samples were obtained using the glass/Teflon sampler. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide) 1 quart glass bottle (cresylic acid)

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WELL NO. 278

Nater Level			Samples
Date	(feet)	Sampling Procedure	Taken
4/28/82	85.6	Water was very silty and pump did not work. The bailer was used to remove 3 gallons of well water before sampling. Bailer was used for sampling. Bailer rinsed with acetone and DI water.	1 gallon bottle (GC/MS) 1 VOA bottle
6/16/82	95.1	Well was redeveloped. Pump ran for 3 minutes, stopped for 22 minutes, ran again for 2 minutes. Sample taken from Teflon tubing.	1 gallon bottle (pest/herb/metals)
8/12/82	96.0	Mot enough water was initially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Sampled water was turbid. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 285

Water Level			Samples	
Date	(feet)	Sampling Procedure	Taken	
6/16/82	70.2	Pump did not work. Bailer was used for sampling. Bailer rinsed with acetone and DI water.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (half full for GC/MS) 1 VOA bottle</pre>	
8/17/82		Well was completely dry.	None	

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WELL NO. 298

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
4/28/82	88.8	Bailer was used for sampling. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/16/82	91.9	Not enough water initially in well for pumping. One bailer volume (approximately 1,200 mls) was removed prior to sampling. Less than 1 foot of water was in the well. Samples were obtained using the glass/Teflon sampler. Water sample was very silty and sandy. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 30

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
6/16/82	94.9	Bailer was used for sampling, after about 2 gallons of well water were removed. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals 1 gallon bottle (half full for GC/MS) 1 VOA bottle
8/17/82	97.1	Not enough water was intially in well for pumping. Ten bailer volumes (approximately 3 gallons) were removed prior to sampling (less than one casing volume). Samples were obtained using the glass/Teflon sampler. Sampled water initially clear, but became turbid while bailing. Both the bailer and sampler were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 31

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
6/15/82	89.2	Pump ran for 10 minutes. Samples taken from Teflon tubing.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/17/82	90.3	Pump ran for 3 minutes until well went dry at 2.2 gpm. About 7 gallons were removed from well during pumping, slightly less than one casing volume. Samples were obtained using double sampler technique. Water samples appeared clear. The samplers were rinsed with acetone and DI water.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 16D

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
6/16/82	99.8	Pump ran for 30 minutes. Samples were taken from the Teflon tubing discharge.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/17/82	102.1	Continuous pumping for 30 minutes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyethylene bottle (cyanide)

WELL NO. 17D

Date	Water Lev (feet)	rel Sampling Procedure	Samples Taken
6/15/82	94.3	Continuous pumping for 40 minutes at 2.5 gpm. Samples were taken from Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/17/82	96.5	Continuous pumping for 35 minutes at >2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb/PCB's) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 18D

Date	Water Lev (feet)	rel Sampling Procedure	Samples Taken
6/15/82	91.3	Pump ran for 10 minutes, stopped for 2 minutes; ran for 21 minutes and stopped for 12 minutes; ran again for 20 minutes. Samples were taken from Teflon tubing.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/16/82	94.0	Continuous pumping for 55 minutes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 19D

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
4/28/82	79.8	Well was pumped for 30 minutes Samples were taken from Teflon tubing.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/16/82	82.4	Continuous pumping for 70 min- utes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 20D

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Date	Water Lev (feet)	el Sampling Procedure	Samples Taken
4/28/82	83.1	Pump ran for 30 minutes. Samples were taken from Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/11/82	86.0	Continuous pumping for 93 minutes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear and had no apparent odor (i.e., aliphatics).	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 1 quart polyeth- ylene bottle (cyanide) 1 quart bottle (aliphatics)
9/4/82	86.06	Sampled well directly with glass/ Teflon sampler without prior bail- ing. Sample collected at 11:30 a.m.	1 liter bottle (aliphatics)
9/4/82	86.06	Continuous pumping for 165 min- utes at 2.5 gpm. Samples were taken from Teflon tubing. Pumped water was clear. Sample collected at 2:45 p.m.	1 liter bottle (aliphatics)

WELL NO. 21D

Water Level			Samples Taken
Date	(feet)	Sampling Procedure	Taken
6/15/82	78.6	The well was pumped for 40 minutes. Samples were taken from the Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/13/82	80.0	Continuous pumping for 50 minutes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 22D

Date	Water Lev (feet)	rel Sampling Procedure	Samples Taken
4/28/82	84.1	Pump ran for 30 minutes. Samples taken from Teflon tubing.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle
8/13/82	87.1	Continuous pumping for 75 min- utes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 23D

Date	Water Lev (feet)	rel Sampling Procedure	Samples Taken
4/28/82	85.7	Well was pumped for 30 minutes and samples were taken from the Teflon tubing.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle
8/13/82	92.1	Continuous pumping for 70 min- utes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 24D

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WELL NO	Water Lev (feet)	rel Sampling Procedure	Samples Taken		
4/28/82	85.5	Pump ran for 30 minutes before samples were taken from Teflon tubing.	1 gallon bottle (pest/herb/metal 1 gallon bottle (GC/MS) 1 VOA bottle		
8/12/82	92.7	Continuous pumping for 60 minutes at 2.2 gpm. Three casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)		
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WELL NO. 25D

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
6/15/82	94.9	Pump ran for 50 minutes. Samples were taken from the Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/12/82	96.8	Continuous pumping for 40 minutes at 2.2 gpm. In excess of three casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 26D

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Date	Water Lev (feet)	Sampling Procedure	Samples Taken
4/28/82	95.8	Well was pumped for 30 minutes and sampled from the Teflon tubing.	<pre>1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/11/82	103.8	Continuous pumping for 53 minutes at 2.2 gpm until generator ran out of gas. Pumped again for 15 additional minutes at 2.2 gpm. In excess of 3 casing volumes pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide) 1 quart glass bottle (cresylic acid)

WELL NO. 27D

	Mater Level		Samples
Date	(feet)	Sampling Procedure	Taken
4/28/82	94.7	Pump ran for 30 minutes. Sample was collected with bailer. Sailer rinsed with acetone and DI water.	<pre>1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 1 VOA bottle</pre>
8/12/82	103.1	Continuous pumping for 45 minutes at 2.2 gpm. In excess of 3 casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 28D

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
6/16/82	98.7	Pump ran for 5 minutes. No more water was pumped out. The bailer was used for sampling. Bailer rinsed with acetone and DI water.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (half full for GC/MS) 1 VOA bottle
8/17/82	98.5	Continuous pumping for 30 minutes. Pump flow rate varied from 1 to 2.2 gpm. About three casing volumes were removed from well before sampling. Samples were taken from Teflon tubing. Pumped water varied from clear to slightly turbid.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 29D

Date	Water Lev (feet)	el Sampling Procedure	Samples Taken
4/28/82	88.6	Pump ran for 30 minutes. Samples were taken from Teflon tubing.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 1 VOA bottle
8/16/82	93.5	Continuous pumping for 60 minutes at 2.2 gpm. In excess of three casing volumes were pumped from well before sampling. Samples were taken from Teflon tubing. Pumped water was clear.	1 gallon bottle (pest/herb) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

SAMPLING EVENTS
STAGE II MONITORING WELLS

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WELL NO. 338

Nater Level
Date (feet) Sampling Procedure Samples Yaken 9/29/82 10 83.52 Pump ran for 2 minutes at 2.5
gpm before well went dry. Less
than one casing volume removed 1 gallon bottle (pest/herb/metals) 1 gallon bottle prior to sampling with double (GC/MS) sampler. Pumped water was silty. 2 VOA bottles f quart polythylene bottle (cyanide) 1 quart bottle (aliphatics)

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WELL NO. 34S

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Date	Water Level (feet) Sampling Procedure		Samples Taken
9/14/82		Well was dry with thick mud at the bottom.	None
9/28/82	***	Well contained insufficient water for sampling.	None

WELL NO. 358

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Date	Water Lev (feet)	el Sampling Procedure	Samples Taken	
9/14/82		Well was dry with muddy silt at the bottom.	None	

WELL NO. 365

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	Water Lev	rel	Samples
Date	(feet)	Sampling Procedure	Taken
9/29/82	80.33	Well contained insufficient water for pumping or bailing. Samples obtained with double sampler. Sampled water was silty. Very muddy at bottom of well.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 375

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/28/82	83.58	Well contained insufficient water for pumping. Samples collected using double sampler technique. Sampled water was relatively clear.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 39S

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/14/82	87.52	Very little water in well (approximately 1 foot). Well bailed 5 times prior to sampling. Samples obtained with sampler. Sampled water was brown and silty. Sample for GC/MS was obtained 9/15/82.	<pre>1 liter in gallon bottle (GC/MS) 2 VOA bottles 1 liter polyeth- ylene bottle (half full for</pre>
9/27/82		Well was dry.	None

WELL NO. 40S

1118

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/29/82	97.06	Well contained insufficient water for pumping. Bailed 5 times prior to sampling. Sampled with double sampler (glass/Teflon and Teflon). Effluent appeared somewhat turbid but fairly clean.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide) 1 quart glass bottle (cresylic acid)

WELL NO. 41S

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/14/82	95.52	Pumped for 33 minutes total, with flow rate of 2.0 gpm for 3.5 minutes, decreasing to 1.1 gpm thereafter. In excess of 3 casing volumes were removed prior to sampling. Pumped water was silty.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 liter polyeth- ylene bottle (cyanide)

WELL NO. 42S

44.75

Nater Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/15/82	4.44	Well was dry with 6 inches of mud at the bottom. Required further development.	None
9/27/82	89.73	Samples obtained using double sampler technique without prior bailing. Water appeared brown and cloudy.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 43S

Water Level			Samples Makes
	(feet)	Sampling Procedure	Taken
9/14/82	87.81	Pump ran for 2 minutes at 2.3 gpm, then well pumped dry. Pump effluent was clear. Samples obtained with double sampler after well went dry. Sample water was a muddy color. One sampler volume was emptied prior to sampling.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 liter polyeth- ylene bottle (cyanide)

WELL NO. 44S

Water Level			Samples
Date	(feet)	Sampling Procedure	Taken
9/13/82	78.375	Pumped for 101 minutes at 1.5 gpm initially, decreasing to <0.5 gpm. Twenty-five gallons pumped from well before sampling. Samples collected using pump. Pumped water was murky and silty.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 2 VOA bottles 1 liter polyeth- ylene bottle (cyanide)

WELL NO. 458

	Water Lev	rel	Samples
Date	(feet)	Sampling Procedure	Taken
9/14/82	87.56	Less than 2 gallons were removed with bailer prior to sampling. Only 1.5 to 2 feet of water stood in well. Samples were collected with Teflon sampler. The sampled water was muddy.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 liter polyeth- ylene bottle (cyanide)

WELL NO. 465

	Water Lev		Samples
Date	(feet)	Sampling Procedure	Taken
9/29/82	96.7	Well contained insufficient water for pumping. Bailed 5 times prior to sampling with glass sampler. Sampled water appeared turbid and very silty.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 47S

Date	Water Lev (feet)	Sampling Procedure	Samples Taken
9/29/82	83.98	Well contained insufficient water for either pumping or bailing. Sampled directly with glass/Teflon sampler. Sampled water was very muddy.	1 gallon bottle (pest/herb/metals) 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

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WELL NO. 485

	Water Leve	el	Samples
Date	(feet)	Sampling Procedure	Taken
9/15/82	***	Well was dry, and did not appear to be completed.	None

WELL NO. 498

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	Water Lev	rel	Samples
Date	(feet)	Sampling Procedure	Taken
9/29/82	100.04	Well pumped dry in 17 minutes at initial flow rate of 1.4 gpm, increasing to 2-3 gpm. Well was allowed to recharge for 20 min- utes, then was pumped dry again in 8 minutes. Samples obtained by pumping directly into sample bottles. Pumped water was initially clear but became murky.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

WELL NO. 508

T

Date	Water Level (feet)	Sampling Procedure	Samples Taken
9/14/82		Well was dry.	None

WELL NO. 38D

	Water Lev	rel .	Samples
Date	(feet)	Sampling Procedure	Taken
9/27/82	80.21	Pumped 10 minutes at 2.4 grm and well subsequently went dry. Allowed well to recharge for about 20 minutes and pumped again. Pump ran for 45 seconds before well pumped dry again. Pumped water was clear. Samples collected with double sampler. Sampled water was silty.	1 gallon bottle (pest/herb/metals 1 gallon bottle (GC/MS) 2 VOA bottles 1 quart polyeth- ylene bottle (cyanide)

APPENDIX I

WATER LEVEL DATA MONITORING WELLS

WELL OF DATE HUG

	LEVEL DATA	
WELL LOCATION Mc Clollan	MEASURING POINT Graund lovel	
		_
ELEVATION MEASURING BOINT	CROWN LEVEL 55.81 WS/	

LEVATION: M	VATION: MEASURING POINT					GROUND LEVEL 55 8 1 WISC			
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	LEVEL	BY	COMMENTS	
5/21/82		M-Scope	84.3			-28.5	YN		
6/8/82		} 1		53.81	85.3		YN		
9 / 20/82		и		55.81	87,9		YN		
				 					
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WELL OF DATE MW7

WATER LEVEL DATA

WELL LOCATION McClellan	MEASURING POINT	Graund	level
		9	

ELEVATION: MEASURING POINT _____ GROUND LEVEL _______ 57.85 WSL

WELL	TIME	MEASURING	READING	CONVERSIONS	WATER	LEVEL	BY	COMMENTS
DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	61	COMMENTS
5/24/82		M-scope	88.6	57.85	88.6	-30.8	YN	
6/8		V	89.1	57.85	89.1	-31.3	YN	
9/20		11	92.2		92.2	-34.4	ΥN	
120			12.2	27.63	10.0	- 	//	
								
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WELL OF DATE HW8

	MEASURING POINT GYOUND LEVEL
FI EVATION: MEASURING BOINT	GROUND I EVEL 77.45 WSL

	in: Measuring Point ground level							
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS	WATER DEPTH	ELEVATION	87	COMMENTS
1/11/82		M-Scape	99.5	77.45		-22.1	ΥN	
29/82		11	99.8	77.45			MCM	
121/82		v	1	,,,,,,		22.	VAI	No reading
10/02		V	102 5	77.45		-25.1	YN	NO Realing
19/82		11	02.3	77.45		-24.9		
12402		<u> </u>	02.5	7 / 15		-/4.4	YN	
			 					
		 	 					
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WELL OF DATE MU19

WATER LEVEL DATA

WELL LOCATION Mc Clellan	MEASURING POINT Graund Level
ELEVATION: MEASURING POINT	GROUND LEVEL 78.05 WSL

WELL of Date	TIME MEASURING READING CONVERSIONS OF CORRECTIONS				DEPTH	ELEVATION	87	COMMENTS
4/29/82		M-Scape	93.3	78.05	93.3		ИСН	
5/21		11 11	101.3	78.05	101.3	- 23 25	VII	no well cap
6/9		u	103.1		103 · L	-25.1	YN	y
9/20		u	105.0				YN	. 4
.120		<u> </u>	103.0	18.09	105.0	-27.0	710	
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WELL LOCATION Mc CULL au	MEASURING POINT Graund Level
WELL LOCATION	MEASURING POINT
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METT	TIME	TIME MEASURING	MEASURING READING CONVERSION		WATER	LEVEL	84	COMMENTS
WELL or DATE		DEVICE		CORRECTIONS	DEPTH	ELEVATION		
5/21/82		M-Scope	78.7	56, 17	78.7	-22.5	YN	
7/17		M-sope		56.17		-24.6	ΥN	
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WELL OF DATE HW 11

WELL LOCATION McClellau	MEASURING POINT Graund level	_
ELEVATION: MEASURING POINT	GROUND LEVEL 53.38 WSL	

MELL		MEASURING	BEADING	CONVERSIONS	WATER LEVEL			********
WELL of DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	87	COMMENTS
21/82		M-Scope	76.2	53.38		-22.8	YN	
/18		11		53.38		-24.6	JR	
17		. (/		53.38	78.5	-25,1	YN	
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WELL OF DATE HWIS

WELL LOCATION McClellau	MEASURING POINT Ground Level
ELEVATION: MEASURING POINT	GROUND LEVEL 59.79 WSL

WELL		MEASURING BEADING	CONVERSIONS	WATER	LEVEL		COMMENTS	
WELL OF DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
4/28/82		M-Scope	82.0	59.79	82.0	-22.2	ИИ	
7/21		11	82.1	59.79	82.1	-22.3	YN	
2/18		12	84.1	59.79	84.1	-24.3	<b>J</b> R	
1/17		. U	84.6	59.79	84.6	-24.8	YN	
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WELL OF DATE HW13

#### WATER LEVEL DATA

WAICH CL	AFF DWIW
WELL LOCATION McClellan	MEASURING POINT <u>AVALUA LOVEL</u>
	58.71 MS1

WELL	THE MEASURING PEACING			CONVERSIONS	WATER LEVEL		90	6044545
DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
11/82		M-50000	81.5	58.71	81.5	-22.8	YN	
1/21		(1	81.0	58.71	81.0		YN	
1/18		10	82.6	58.71	82.6	-23.9	25	
1/17		((	83.0	58,71	83.0	-24.3	Σ	
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WELL OF DATE MW14

D/4710N . 1	47.401101	INC BOINT	<del></del>		MEASURING POINT GROUND LEVEL 58.81 WSZ					
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS		LEVEL	BY	COMMENTS		
121/82		4-scape	81.0	58,81	81.0	-22.2	YU			
/18		u	82.6	58.81		-23.8	jel			
117		u	83.3	58.81	83.3		YU			
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	WELL or	DATE 4W 15
WELL LOCATION MCCULLAIN		
WELL LOCATION MCULLAN	MEASURING POINT_	graina livel
ELEVATION: MEASURING POINT	GROUND LEVEL	56.61 msl

WELL TIME MEASURING READING CONVERSIONS OF CORRECTIONS				WATER	LEVEL				
DA	rE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	84	COMMENTS
1/11/	82		4-Scape	80.0	56.61	80.0	-23.8	УN	
8/18			11	81.0	56.61	81.0		P	
9/17			11	81.3			-25.1	ΧU	
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WELL OF DATE MW 165

ELL LOCATIO	M M	clellan		R LEVE						
EVATION: A	MEASURI	NG POINT			GROUND LEVEL 80.7 WISL					
WELL of DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	ELEVATION	вү	COMMENTS		
3/11/82	8:00	4-scope	98.6	80.7	98.6	-17.9	YN	after avaenno		
1/2								developed		
110		M-Scope	98.0	80.7	98.0	-17.3	NY			
116		H-scope		20.7	97.8	-17.1	ΥN			
17		и	100.0	80.7	100.0	-193				
17		11	100.9	80.7	100.9	-20.2				
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WELL or DATE MW175

### WATER LEVEL DATA

WELL LOCATION McClellan	MEASURING POINT <u>Fround Level</u>
	-0.21
	73.31 wis/

WELL		MEAGURANA	1	CONVERSIONS   WATER LEVEL				T	
OF	TIME	MEASURING DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
6/1/82				GOINESTIGNS				developed	
6/2		M-Scope	93.5	73.3'	43.5	-20.2	0.2	two certifies	
19		M-Scope	43.8	73.3	93.8	-20.5			
11/0		M-Scope	94.1	73.3	94.1	-20.8		-	
/17		11	962	73.3		-22.9			
/23		ų	96.4	73.3	96.4		70Z		
165		<del></del>	10, -	/3.3	7.0	23.1	<u> </u>		
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WELL OF DATE MW 18 5

#### WATER LEVEL DATA

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WELL LOCATION McClellan	MEASURING POINT <u>Evound</u> Level	•
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EL EVATION - MEAGURING BOINT	09.2 WS!	

METT !	-	MEASURING		CONVERSIONS	WATER	LEVEL		
WELL or DATE	THE	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
6/1/82								developed
6/2		M-Score	90.8	69.2	90.8	-21.6	2	
6/9		M-Scope		69.2	91.3	- 22.!	УM	
4/15		M-Scope	90.8	49.2	90.3	-21.6	H/N	
8/16		4	92.9	69.2	92.9		IR	
7/23		Y	93.0	69.2	93.0		SOL	
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WELL OF DATE MW195

#### WATER LEVEL DATA

WAI	CE DAIA
WELL LOCATION MCCIPILAN	MEASURING POINT GROUND LOVEL
EI EVATION: MEAGURING BOINT	57.8 WSL

-	MEASURING	CONVERSIONS	WATER	LEVEL			
TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	87	COMMENTS
							dueloces
	M-Scope	82.3	57.8	82.3	-24.5	YN	
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	10						
	11	81.3	57.8	81.3	-23.5	JR	
	u			81.3	-23.5		·
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	TIME	M-Scope  u  u	M-Scope 82.3 u 80.0 u 79.9 u 80.2	TIME DEVICE READING CORRECTIONS    M-Scope   82.3   57.8	DEVICE   READING   CORRECTIONS   DEPTH	TIME DEVICE READING CORRECTIONS DEPTH ELEVATION    M-Scape   82.3   57.8   82.3   -24.5	TIME DEVICE READING CORRECTIONS DEPTH ELEVATION

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## WATER LEVEL DATA

WELL LOCATION H.C.C.lellan	MEASURING POINT Eround Level
EI GVATION MEARIBING BOINT	GROUND LEVEL GO. 1 WSL

WELL OF DATE	TIME	MEASURING DEVICE	CONVERSIONS or CORRECTIONS	WATER DEPTH	ELEVATION	BY	COMMENTS	
5/19/82				CORRECTIONS	507111		-	developed
5/20	10:00	H-Scope	83.4	60.1	83.4	-23.3	YN	ancope
5/20	12:30	11	83.6	60.1	83.6		УN	
720 5/21	1:20	11	82.8	60.1	82.8	-22.7	ΥN	
5/25	1.20	ıı	83.5		83.5	-23.4	7 77 77	1/11/1 / 1/20/20/20
6/8		11	84.0	60.1	84.0	-23.9	777	1/2" hydrocarbor
8/11		u		60.1	84,4			<u>"</u>
3/17		u u	84.4	60.1	84.9		JR	
117		u	84.8	60.1	84.8	-24.8	YN	V
1/22		i i i i i i i i i i i i i i i i i i i	87.8	60.1	87.8	-24.7	103	<u>.u</u>
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WELL LOCATION 4 CUEUCUS	MEASURING POINT Crauded Lovel
ELEVATION: MEASURING POINT	GROUND LEVEL 57.5 WISL

WELL or DATE	TIME MEASURING READING			CONVERSIONS	CONVERSIONS WATER LEVEL			COMMENTS	
DATE		DEVICE		CORRECTIONS	DEPTH	ELEVATION	BY		
6/2/82				L				deleter	
6/2		M-sope	81.9	57.5	81.9	-24.4	<b>Y</b> N		
6/15		11	78.2	57.5	78.2		YΝ		
8/13		V	79.3	57.5			JR		
9/17		V	79.7	57,5	79.7		YN		
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## WATER LEVEL DATA

WELL LOCATION Mc Clellan		Ground 12141.
		(6 6 116)
ELEVATION: MEASURING POINT	GROUND LEVEL	60.0 WS

WELL		MEASURING		CONVERSIONS	ONVERSIONS WATER LEVEL			
DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
5/20/8	4							roverses
5/21		M-scope	84.7	60.0	84.7	-24.7	ХN	,
6/2		- 11	84.9			-24.9	RZ	
4/0		l í	85.9	60.0	85.9	-25.9	YAI	
8/13		ų	86.6	60.0	86.6	-26.6	JR	
3/17		l(	87.4	60.0	87.4	-27.4	YN	
1/22		N	87.1	60.0	87.1		201	<del></del>
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NELL OF DATE 235

ELL LOCATIO	N M	cclella					UV	d level
LEVATION: A	EASURI	NG POINT			ROUND LEV	el <u>58</u> .	ક	12.00
WELL OF DATE	TIME	MEASURING	READING	CONVERSIONS		LEVEL	BY	COMMENTS
BTAD	I IME	DEVICE	REAUING	CORRECTIONS	DEPTH	ELEVATION		COMMENTS
5/20/22								doublest

TIME	MEASURING DEVICE M-Scope	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
	M-Scope						
	M-scope			L			developed
		87.8	58.5	87,8	-29.3	72	
	11	87.8	58.5	87.8	-29.3	УN	
	11	90.1	58, S	90.1		2	
	ч	89.9	58.5	89.9		JDZ	<del></del>
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## WATER LEVEL DATA

WELL LOCATION McClellain	MEASURING POINT Ground Lovel
ELEVATION: MEASURING POINT	GROUND LEVEL 58.2 MICL

ELEVATION: MEASURING POINT_

GROUND LEVEL __

WELL		MEASURING BEADING CONVERSIONS			WATER	LEVEL			
WELL of DATE	TIME	DEVICE	READING	CONVERSIONS OF CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
5/19/82								developed	
5/21		M-Scope	87.2	58.2	87.2	-29.0	YΝ		
618		li	87.3	58.2		-29.!	УN		
8/12		11	89.8	58.2		-31.6	JR		
			0 1.0	38.2	0 170	31.0	)		
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### WATER LEVEL DATA

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ELEVATION: MEASURING POINT	GROUND LEVEL 67.6 WISL	

WELL	MEASURING BEADING CONVERSIONS WATER LEVE					LEVEL			
WELL or DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
4/7/82								developed	
6/8		M-Scope	94.3	67.6	94.3	-26.7	YN		
61:5		10	94.7	67.6	94.7	-27.1	λŊ		
8/12		11		67.6		-28.8	_		
9/4		11		67.6		-29.0			
9/23		દા	96.5	67.6	96.5	-28.9	102		
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WELL OF DATE	TIME	MEASURING DEVICE	MEASURING READING CONVERSIONS OF CORRECTIONS			LEVEL	BY	COMMENTS
5/2/1/2								Mark you
6/8		M-Scope	96.5	70.5	96.5	-26.0	YN	
6/1/2		14	96.5	70.5	96.5	-26.0	УN	
8/11		tl	97.5	70.5	97.5	-27.0	JR	
8118		11	98.0	70.5	98.0	-27.5	ΥN	
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WELL or DATE 275

EVATION: A	IEASURI	NG POINT			GROUND LEVEL 71.8 ms/						
WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS		LEVEL	BY	COMMENTS			
120/82		-						Levelopeo			
5/21		M-Scope	95.8	71.8	95.8	-24.0	YN				
2 / B		It	96.2			-24.4	YN				
11/10		ч		71.8		-23.3					
3/12		11	96.0				JR	<del></del>			
1/4		11	96.2		46.2		2				
1/18		()	96.4	71.8	96.4	-24.6	YN				
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WELL OF DATE 285

## WATER LEVEL DATA

WELL LOCATION Mc Collay	 Groundlevel
	72.6 4151

WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS	WATER DEPTH	ELEVATION	BY	COMMENTS
6/7/82								developed
6110		M-scope	69.8	72.6	69.8	+2.8	YN	
6/16		u	70.2	72.6	70.2	+2.4	YN	silty
122								redcielopad
117		<u>u</u>	88.9	72.6	88.9	-15.3	JR	
123		u	89.0	72.6	89.0	-15.37	70 <del>5</del>	
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## WATER LEVEL DATA

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WELL LOCATION M.C.C. LOLLAN	MEASURING POINT CHOUNG I LEE	
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SI SVATION. MEASURING BOINT	GB01140 1 5V51 68 5 10154	

MELL	TIME	MEASURING	TURING READING CONVER	CONVERSIONS	S WATER LEVEL			COMMENTS
WELL or DATE	IME	DEVICE	REAUING	CORRECTIONS	DEPTH	ELEVATION	84	COMMENTS
5/20/82								developed
5/21		M-scope	89.5	68.5	89.5	-21.0	YN	
1/8		1#	89.8	68.5	29.8	-2!.3	3	
8/16		£1	91.9	68.5	91.9		JR	
9 14		tt.	92.1	08.5	92.1	-23.6	ΥN	
9/23		L/	92.2	68.5	92.2		102	
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WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS	WATER DEPTH	LEVEL ELEVATION	BY	COMMENTS
6/7/82								developed
6/9		M-sope	95.8	73.0	95.8	-22.8	YN	
8/17		u	97.1	73.0	97.1	-24.1	JB	
9/23		V	97.3	73.0	47.3	-24.3	10 <del>5</del>	
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6/7/82							developed
6/a	N-sope	95.8	73.0	95.8	-22.8	YN	
8/17	u	97.1	73.0	97.1	-24.1	JP	
9/23	V	97.3	73.0	97.3	-24.3	103	
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## WATER LEVEL DATA

WELL LOCATION MICCIALIAN	MEASURING POINT ANGUND LEVEL
ELEVATION: MEASURING POINT	GROUND LEVEL 65.8 WASL

WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS		LEVEL	BY	COMMENTS
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4/2/82								dueloced
1/2		H-Scope	88.8	65.8	88.8			
1/8		1(	89.0	45.8	89.0	-23.2	٧N	
11:5		Lt.	89.2	65.8	89.2	-23.4	YΝ	
3/17		11	90.3	65.8		-24.5		
123		l,	90.8	45.8	90.8		103	
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WELL or DATE 335

LEVATION: A	1EASURI	NG POINT			MEASURING POINT GROUND LEVEL 58.28 MSL				
WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS	WATER DEPTH	WATER LEVEL DEPTH ELEVATION		COMMENTS	
9/29/82		<b>Н-</b> Соре	83.5	58.28	83.5	<i>-25,2</i>	JR		
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WELL OF DATE 345

### WATER LEVEL DATA

WELL LOCATION Mc Clossan	
ELEVATION: MEASURING POINT	GROUND LEVEL 58. 17 WSL

METT	TIME	MEASURING	READING	CONVERSIONS	WATER	LEVEL	BY	COMMENTS
WELL OF DATE	1	DEVICE		CORRECTIONS		ELEVATION		
1/27/82		M-Scope	80.1	58.17	80.1	-21.9	J02	
128		11	80.2	58.17	80.2		JR	
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LEVATION: N	EASUR	ING POINT			MEASURING POINT Ground level  GROUND LEVEL 51. 50 MSL					
WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS or CORRECTIONS	WATER DEPTH	ELEVATION	BY	COMMENT		
8/27/82		H-Scape	74.4	51,50	74.4	-22.9	TH			
9/14	•	1)	_	_	_		JR	Dry		
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IEASURI	NG POINT			GROUND LEV	EL <u>56 .</u>	14	usl
TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS		LEVEL		
	H-Scope	83.5		83.5	-27.4	JR	
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	TIME	TIME MEASURING DEVICE	TIME MEASURING READING	TIME MEASURING READING CONVERSIONS OF CORRECTIONS	TIME MEASURING DEVICE READING CONVERSIONS WATER CORRECTIONS DEPTH  H-Scope 83.5 56.14 83.5	TIME MEASURING DEVICE READING CONVERSIONS WATER LEVEL CORRECTIONS DEPTH ELEVATION SOLVEN DEPTH ELEVATION SOLVEN DEPTH ELEVATION DEPTH ELEVATION SOLVEN DEPTH ELEVATION SOLVEN DEPTH ELEVATION DEPTH ELEVA	TIME   MEASURING DEVICE   READING   CONVERSIONS   DEPTH   ELEVATION   BY

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### WATER LEVEL DATA

WELL LOCATION Mc Clellan	MEASURING POINT Grawd level	
ELEVATION: MEASURING POINT	GROUND LEVEL 60.07	

WELL	<b>5</b> 11.5	MEASURING	2012111	CONVERSIONS	WATER	LEVEL		COMMENTS
WELL OF DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
9/15/82		M-Scope	831	60.07	83.1	-23.0	JR	
1/27		V	83.5		83.5	-23.4	102	
128		11	83.6	60.07	83.6		JR	
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WELL OF DATE MW395
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WELL OATE 9/14/82 9/23	TIME	MEAGUELLE			MEASURING POINT Graund level  GROUND LEVEL 67.96 WSL					
9/14/82		MEASURING DEVICE	READING	CONVERSIONS or CORRECTIONS	DEPTH	ELEVATION	87	1		
9/23		M-Scope	<i>87.5</i>	67.96	87.5	-19.5	JR	muddy		
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9/27		11					JR	dry dry		
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WELL CONVERSIONS WATER LEVEL	ELEVATION: N	IEASURI	NG POINT			MEASURING POINT Ground level  GROUND LEVEL 68.80 WS					
9/24/82 H-Scope 97.1 68.80 97.1 -28.3 JC	WELL		MEASURING	1	CONVERSIONS	WATER	LEVEL		COMMENT		
	9/29/82		H-Scope	97.1		97.1	-28.3	Je			
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## WATER LEVEL DATA

ELEVATION:	MEASURI	NG POINT			MEASURING POINT Graund level ground level 63.74 msl						
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS		LEVEL	BY	COMMENT			
9/14/82		M-Sope	95.5		95.5	-31.8	JR				
9/22		V	95.2		95.2	-31.5	102				
162			1 1 1		17.5						
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ELEVATION: N	IEASURI	NG POINT			MEASURING POINT Graund level  GROUND LEVEL 56.58 WSL					
WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS		LEVEL	BY	COMMEN		
9/15/82		M-Scope	90.1	56.58	90.1	-33.5	JR	muddy		
9/27		11	89.7	56.58	89.7	-33.1	JE	muddy		
1			3 11.7			<del></del>				
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### WATER LEVEL DATA

WELL LOCATION McClellan	MEASURING POINT <u>Avaluad leve</u>	1
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57.01 msl GROUND LEVEL ____ ELEVATION: MEASURING POINT. WELL OF DATE CONVERSIONS or CORRECTIONS WATER LEVEL MEASURING TIME READING COMMENTS DEVICE ELEVATION DEPTH 9/4/82 H-Scope 87.8 57.01 27.8 -30.8 SR 87.6 57.01 87.6 u -30.6 LOCATION.

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·	MEASUR	ING POINT				53	. 19	msl
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	LEVEL ELEVATION	BY	COMME
9/13/82	2	M-Scape	78.4	53.79		-24.6	JR	
9/20		U	78.3	53.79	78.3	-24.5	ΥN	
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### WATER LEVEL DATA

WELL LOCATION Mc Clellan	MEASURING POINT. Graund level
ELEVATION: MEASURING POINT	GROUND LEVEL

WELL		MEASURING		CONVERSIONS WATER LEVEL				00444545	
WELL OF DATE	TIME	DEVICE	READING	CONVERSIONS CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
114/82		H-Scope	87.6		87.6	-27.0	JR		
/17		V	87.4	60.64	974	-26.8	YN		
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ELEVATION: 1	NEASUR	ING POINT		MEASURING POINT Graund level 65.67 WSL				
DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS		LEVEL	BY	COMMENT
9/20/82		M-Scope	96.4	65.67	96.4	-30.7	УN	
9/29		11	96.7	65.67	96.7	-31.0	JP	
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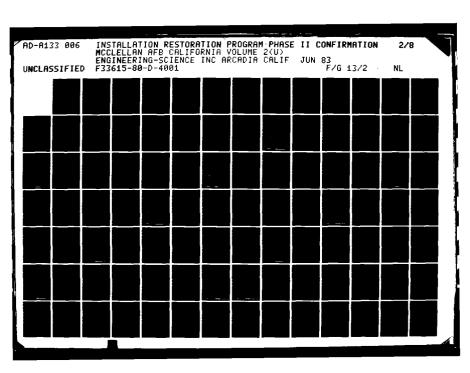
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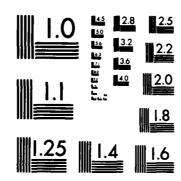
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## WATER LEVEL DATA

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WELL LOCATION MC Clellais	MEASURING POINT Ground level
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GROUND LEVEL 55.29 WSL ELEVATION: MEASURING POINT_ CONVERSIONS OF CORRECTIONS WELL OF DATE WATER LEVEL MEASURING DEVICE READING COMMENTS TIME ELEVATION DEPTH 9/29 M-Scope 84.0 55.29 84,0 -28.7 UR





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## WATER LEVEL DATA

WELL LOCATION MCCLOSION	MEASURING POINT Ground	level
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WELL		MEASURING		CONVERSIONS	WATER	LEVEL		60445455	
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
9/15		M-Scope		54.23			JR	Dry	
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		ING POINT			GROUND LEV	el 7 9	1.9	0
WELL or DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS or CORRECTIONS	WATER DEPTH	LEVEL	87	COMME
9/29/82		M-Scope	100.1	74.90	100.1	-25.2	JR	
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### WATER LEVEL DATA

WELL LOCATION McClellay	
ELEVATION: MEASURING POINT	GROUND LEVEL 82.82

WELL or Date	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	LEVEL	84	COMMENTS
OAIE						<del></del>		
1/14/82		M-scope		85.85			18	Dry
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WELL LOCATION McCIPILAN	MEASURING POINT Smund level
ELEVATION: MEASURING POINT	GROUND LEVEL 80.7' MSL

WELL		45.00.000	T	CONVERSIONS WATER LEVEL				1	
WELL OF DATE	TIME	MEASURING DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
4/2/82								acrelacea	
ello		M-Scope	99.7	80.7	99.7	-19	YN		
11/2		И	99.8	80.7		-19.1	YN		
1/17		h	102.1				JR		
117		"	102.8	80.7	102.8		YN		
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## WATER LEVEL DATA

W	ELL LOCAT	ION_L	1cClella	• • • • •		MEASURING POINT	d 1241.	241.		
€	LEVATION:	MEASUR	ING POINT			GROUND LEVEL	73.	31	msL	_
ſ	WELL	TIME	MEASURING	READING	CONVERSIONS	WATER LEVE	L	8Y	COMMENTS	

LEVATION: N	EASURI	ING POINT		GROUND LEVEL				
WELL	TIME	MEASURING DEVICE	READING	CONVERSIONS	WATER LEVEL		8Y	COMMENTS
WELL OF DATE				CORRECTIONS	DEPTH	ELEVATION	٥,	COMMENTS
4/1/82								Developed
6/2		M-Scope	93.7	73.3	93.7	-20.4	22	
4/9		M-Scope		73.3	94.0	-20.7	YN	
4/10		M-5000	94.2		942	-20.9		
8/17		1	96.5	73.3	96.5	-23.2	JP	
9/23		ii	96.7	73.3	96.7	-23.4		
1/25			70.7	/ 3, 3	7.0.7	<u> 2 J. 9</u>		
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LEVATION: MEASURING POINT					GROUND LEVEL 69.2 WSL				
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	LEVEL ELEVATION	BY	COMMENTS	
6/1/82								develope	
6/2		H-Scope		69.2	90.3	-21.1	22		
o/a		M-Scope	91.5	69.2	91.5	-22.3	ΥN		
0/15		M-Scope	91.3	69.2	91.3	- 22. !	HIM		
116		,	94.0	69.2	94.0	-24.8	3C		
123		17	93.8	69.2	93.8	-24.6	JD2		
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## WATER LEVEL DATA

WELL LOCATION MCCLELLAN	MEASURING POINT <u>Fround level</u>
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ELEVATION: MEASURING POINT	GROUND LEVEL 57.8 WISL

WELL		MEASURING		CONVERSIONS	WATER LEVEL			
WELL OF DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS
5/19/82								developed
5/20		4-scope	79.6	57.8	79.6	-21.8	YN	
5/21		M-Scope	80.6	57.8		-22.8	YN	
619		ı(	80.8	57.8	80.8	-23.c	YAI	
8/16		ı(		57.8			JR	
9/17		ιt	82.5	57.8			72	
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ELL LOCATION MCCIPICAS  EVATION: MEASURING POINT					GROUND LEVEL 60.1 WISL				
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS		LEVEL	BY	COMMENTS	
5/19/10				CONNECTIONS				developed.	
7/20		4-scope	84.2	60.1	84.2	-24.!	ZN	35055	
121		11	84.1	100.1	84.1	-24.0	YN		
/25		ų	84.1	60.1	84.1	-24.0		widthration swe	
18		11	84.3	60.1.	34.3	<del></del>	_	relucearbon sine	
/11		11	86.0	60:1	86.0		JR		
117		и	86.2	60.1	86.2		YN	ч	
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### WATER LEVEL DATA

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WELL LOCATION McClallan	MEASURING POINT Graund livel
	57.5 WS/

WELL	1	MEASURING	<b>.</b>	CONVERSIONS	WATER	LEVEL		
WELL OF DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	87	
10/2								ricuelos
6/8		M-Scope	78.6	57.5	78.6	-21.	YN	
6/B 6/15		11	78.6	57.5	78.6	-21.1	YN	
8/13		11	80.0	57.5	80.0	-22.5	JR	
9/17		11	80.3	57.5	80.3	-22.8	YN	
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# WATER LEVEL DATA

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ELEVATION: MEASURING POINT	GROUND LEVEL 60.0 21-1	

WELL OF DATE	TIME	MEASURING	READING CONVERSIONS	CONVERSIONS		LEVEL	BY	COMMENTS
		DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	<u> </u>	Comments
5/20k2								1214/200
5/21		H-Scope	85.1	60.0	25.1	-25.1	YN	
4/2		ţţ.	85.5	60.0	85.5	-25.5	22	
4/2		. 11	86.1	60.0	86.1	-26.!	YN	
8/13		u	87.1	60.0	87.1	-27.	JR	
1/17		ц	88.4	60.0	88.4	-28.4	YN	
1/22		Y	87.9	60.0	27.9		500	
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### WATER LEVEL DATA

WELL LOCATION Mc Clallan	

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WELL	TIME	MEASURING	25101112	CONVERSIONS WATER LEVEL			BY	
WELL or DATE	1	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION		COMMENTS
5/20/82								developes
5/21		M-scope	90.6	58.8	00.6	-32.1	YN	
6/8		11	90.2	58.8		-31.7	YN	
8/13		11	92.1	58.8	92.1	- 33.3	1P	
9/22		ų.	91.1	58.8	91.1	-32.3	2	
14				30.6	7.1.1	32.0	702	
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# WATER LEVEL DATA

WELL LOCATION McClellan	MEASURING POINT Ground icuel
ELEVATION: MEASURING POINT	GROUND LEVEL 58.2 85

WELL		MEASURING SEASING CONVERSION			WATER LEVEL				
WELL or DATE	TIME	DEVICE	READING	CORRECTIONS	DEPTH	ELEVATION	BY	COMMENTS	
57,0/82								duelocea	
5/21		M-Scope	88.5	58.2	88.5	-30.4	YN		
4/8		и	90.8	58.2 58.2	90.8	-32.6	W		
3/12		11	92.7	58.2	92.7	-34.5	JR		
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WELL   TIME   MEASURING DEVICE   READING   CONVERTIONS   WATER LEVEL   SY COMMENT   C	VATION: A	1EASUR	ING POINT			ground LEV	EL	<u>.                                    </u>	19:5/2
61,5 H-Scope 94.7 67.6 94.3 -26.7 VN 61,5 H 94.9 67.6 94.9 -27.3 VN 13/12 I 96.8 67.6 96.8 -29.2 JR 1/23 H 96.8 67.6 96.8 -29.2 JDZ	WELL or DATE	TIME		READING				ВУ	COMMENTS
1 94.9 67.6 94.9 -27.3 VN 3/12 1 96.8 67.6 96.8 -29.2 JR 1/23 1 96.8 67.6 96.8 -29.2 JDZ	1-/82								1/14/300
1 94.9 67.6 94.9 -27.3 VN 3/12 1 96.8 67.6 96.8 -29.2 JP 1/23 11 96.8 67.6 96.8 -29.2 JDZ			M-Scope	94.7	67.6				
1 96.8 67.6 96.8 -29.2 102	115		lı '	94.9.	67.6	94.9	-27.3	YN	
123 11 96.8 67.6 96.8 -29.2 102	3/12		1	96.8	67.6	96.8	-29.2	JR	
	123		11	96.8	67.6				
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PROJECT

2-109

WELL OF DATE

## WATER LEVEL DATA

MEASURING POINT Seaword Line:	
GROUND LEVEL 70.5 Wis!	
	MEASURING POINT Street Line:

WELL .	TIME	MEASURING DEVICE	READING	CONVERSIONS OF CORRECTIONS	WATER DEPTH	LEVEL	BY	COMMENTS
5/2/kg				CORRECTIONS				deletacon
5/21		M-Scope	99.3	70.5	99.3	-28.8	VN	7.7.5
6/2		(1	99.7	70.5	99.7	-29.2	УNI	
6/11/2		11	101.0			-30.5	YN	
8/11		u	103.7			-33.2	JR	
9/18		,	101.8	70 . 5		-31.3	YN	
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WELL OF DATE ______

#### DΔΤΔ WATER I EVEL

WELL LOCATION Mc (Inllan)	MEASURING POINT (Walled Sch	91
ELEVATION: MEASURING POINT	GROUND LEVEL 715	

ELEVATION: MEASURING POINT.

LOCATION

PROJECT_

WELL or DATE	TIME MEASURING DEVICE		SURING READING CONVERSIONS CORRECTIONS		WATER LEVEL DEPTH   ELEVATION		BY	COMMENTS
5/20/82		061106		CORRECTIONS	DEFIN	LLLVATION		sceince
5/21		M-Scope	900	71.8	90 A	-24.2	72	MUCCULED
10/8		11	98.8	71.8		- 27.0	7 X 1	
6/16			99.4	71.8		-27.6	√N;	<del></del>
8/12		u		71.8				
0112			101.3			-29.5		
9/4		<u> </u>	101.5			-29.7	λN	
9/18		u	100.4	71.8	100.4	-28.6	ΥN	
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NELL OF DATE 285

# WATER LEVEL DATA

WELL OF DATE		NG POINT			BROUND LEV	EL <u>72</u>	2.6	2015
DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS	WATER	LEVEL	BY	COMMENTS
4/7/82								Acuelaged
4/10		M-Scope	99.5	72.6	99.5	-26.9	ΥN	Acrelaged
6/11/2		11		72.6	98.7	-26.1	YN	<u></u>
6/22								wdc.eloca
8/17		11	98.5	72.6	98.5	-25.9	JR	
9/23		11	98.8	72.6			J12	
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WELL OF DATE

# WATER LEVEL DATA

WELL LOCATION M-Clellan	MEASURING POINT CITALLING LILES
·	102.5 MIST

WELL OF DATE	TIME MEASURING RE		READING	READING CONVERSIONS OF CORRECTIONS		LEVEL	87	COMMENTS
5/20/2			<del> </del>	CORRECTIONS	DEPTH		<del>                                     </del>	developed
5/21		11-65-00	90.2	68.5	90.2	-21.7	VI.	developed
		M-scope						<del> </del>
6/8		<del> </del>	90.8	68.5		-22.3	VN	
8/16			93.5	68.5			JR_	
9/4			93.8	68.5			YN	
7/23		l l	93.3	68.5	933	-24.8	105	
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WELL OF DATE MU385

L LOGATIO	) N	1c(lella	Lu	R LEVE	MEASURING	POINT Gro	UNC	e level
EVATION: MEASURING POINT					GROUND LEVEL 55.07 WSL			
WELL OF DATE	TIME	MEASURING DEVICE	READING	CONVERSIONS CORRECTIONS	WATER DEPTH	LEVEL	BY	COMMENTS
27/82		M-Scape	80.2	55.07	80.2	-25.1	35	
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APPENDIX J

ANALYTICAL DATA BASE PRODUCTION WELLS

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

### PRIORITY POLLUTANT DATA SHEET

CLIENT	_Engl	ineering Science	CAL LAB N	10. 14087-1
CLIENT		BWI		G
wet t				
		VOLATILES	ug/L	29 January 1982
	27	acrolein	DU	24 Jo. Samuel
•	37	acrylonitrile	ND	
•	4٧	benzene	~8	
•	6V	carbon tetrachloride	NO	
•		chlorobenzene	ND	
,	100	1,2-dichloroethane	ND	
	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	NO	
	147	1,1,2-trichloroethane	NO	
	15V	1,1,2,2-tetrachloroethane		
	16V	chloroethane	NO	
•	194	2-chloroethylvinyl ether	ND	
	23 <b>Y</b>	chloroform	24	
	294	1,1-dichloroethylene	10	
	30V	1,2-trans-dichloroethylene	23	
	32V	1,2-dichloropropane	ND	
	33V	1,3-dichloropropylene	NO	
-	38V	ethylbenzene	NO	
	44V	methylene chloride	10	· •
	457	methyl chloride	10	
	46V	methyl bromide	· NO	
	479	bromoform	NO	
,	48V	dichlorobromomethane	No	
	49V	trichlorofluoromethane	ND	
	50V	dichlorodifluoromethane	ND	
	517	chlorodibromomethane	NO	
	85V	tetrachloroethylene	11)	
	867	toluene	no	* = Less than 10 ug/L
,	87Y	trichloroethylene	1500 -	ND = Not detected .
	887	vinyl chloride	10	
				- 1

401 NORTH 16th STREET RAMENTO, CALIFORNIA 95814 (916) 444-9602

### PRIORITY POLLUTANT DATA SHEET

ACID COMPOUNDS  #g/L  BASE/NEUTRAL COMPOUNDS  #g/L  BASE/NEUTRAL COMPOUNDS  #g/L  #g	NT - Englisering Solonce		CAL LAB NO. 14C.5.7-	/
21A 2,4.6-trichlorophenol  22A p-chloro-a-cresol  24A 2-chlorophenol  24A 2-chlorophenol  31A 2,4-dichlorophenol  31A 2,4-dichlorophenol  32A 2,4-dichlorophenol  33A 2,4-dichlorophenol  34A 2,4-dimthylphenol  34A 2,4-dimthylphenol  34A 2,4-dimthylphenol  35B bexachlorocyclopentaddene  37D 35B naphthalene  38A 4-nitrophenol  38A 4-nitrophenol  38A 4-nitrophenol  38A 4-nitrophenol  38A 4-nitrophenol  38A 1-dimitro-o-cresol  38A 1-dimitro-o-cresol  38A 1-dimitro-o-cresol  38A 1-dimitro-o-cresol  38A 1-dimitro-o-cresol  38B N-nitrosodinethylamine  38B N-nitrosodin-propylamine  38B N-nitrosodin-propylamine  38B N-nitrosodin-propylamine  38B 1-2-dimitro-o-cresol  38	ACTO COMPOUNDS	u <b>a/i</b>	,	ug/L
22A p-chloro-a-cresol  24A 2-chlorophenol  24A 2-chlorophenol  31A 2,4-dichlorophenol  34A 2,4-dimethylphenol  35B hexachlorocyclopentaddene  36B hostitrophenol  37B hexachlorocyclopentaddene  37B he	•	,		
24A 2-chlorophenol 31A 2,4-dichlorophenol 31A 2,4-dichlorophenol 34A 2,4-dimethylphenol 34A 2,4-dimethylphenol 34A 2,4-dimethylphenol 34A 2,4-dimethylphenol 34A 2,4-dimethylphenol 34B bis(2-chlorocyclopentadiene 35B hexachlorocyclopentadiene 35B naphthalene 35B naphthalene 36B nitrobenzene 36B nitrosodimethylamine 36B n-nitrosodimethylamine 36B n-nitrosodimethylamine 36B nitrosodimethylamine 37B nitrosodimene 37B nitrosodimethylamine 37B nitrosodimene 37B nitro		<del></del>	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	- 1
31A 2.4-dichlorophenol  34A 2.4-dimethylphenol  34A 2.4-dimethylphenol  34A 2.4-dimethylphenol  34A 538 hexachlorocyclopentadiene  358 4-nitrophenol  368 4-nitrophenol  370 558 naphthalene  371 558 naphthalene  372 3.4-dimitrophenol  373 558 naphthalene  374 558 naphthalene  375 2.4-dimitrophenol  376 658 nitrobenzene  377 3.4-dimitro-o-cresol  377 3.4-dimitro-o-cresol  377 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.4-dimitro-o-cresol  378 3.5-dimitro-o-cresol  378 3.5-d	<u></u>			
34A 2,4-dimethylphenol		<del></del>		Sud
57A 2-nitrophenol 71d 58A 4-nitrophenol 71d 55B naphthalene 75B 2.4-dinitrophenol 71d 55B naphthalene 75B 1-1-dichlorobenzene 71d 55B naphthalene 75B distorationalene 75B distorationalene 75B benzo(a)nathalene 75B benzo(a)nathalene 75B benzo(k)fluoranthene 75B penzo(k)fluoranthene 75B penzo(k)fluoranthene 75B nathalene 75B penzo(k)fluoranthene 75B penzo(d)perylene 75B naphthalene 75B penzo(d)perylene 75B nathalene 75B penzo(d)perylene 75B naphthalene 75B penzo(d)perylene 75B naphthalene 75B penzo(d)perylene 75B nathalene 75B penzo(d)perylene				71/
58A 4-nitrophenol  71d  55B naphthalene  76D 2.4-dinitro-e-cresol  70d  618 N-nitrosodimethylamine  70d  628 N-nitrosodimethylamine  70d  638 N-nitrosodimethylamine  70d  638 N-nitrosodi-n-propylamine  668 bis(2-ethylhexyl)phthalate  668 bis(2-ethylhexyl)phthalate  668 bis(2-ethylhexyl)phthalate  708 diethyl phthalate  708 benzo(a)anthracene  708 benzo(a)pyrene  708 chrysene  708 chrysene  708 chrysene  708 chrysene  709 diethyl fluoranthene  708 diethyl phthalate  708 diethyl phthalate  708 benzo(a)pyrene  708 benzo(b)fluoranthene  708 chrysene  709 diethyl phthalate  708 diethyl phthalate  708 diethyl phthalate  708 benzo(a)pyrene  708 chrysene  709 diethyl phthalate  709 diethy				71/
59A 2.4-dinitrophenol  60A 4.6-dinitro-o-cresol  70  618 N-nitrosodimethylamine  70  628 N-nitrosodimethylamine  70  638 N-nitrosodimethylamine  70  638 N-nitrosodimethylamine  70  668 bis(2-ethylhexyl)phthalate  678 butyl benzyl phthalate  678 butyl benzyl phthalate  708 diethyl phthalate  708 benzo(a)anthracene  708 benzo(a)pyrene  708 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  709 chrysene  70				41/1
60A 4,6-dinitro-o-cresol  61B N-nitrosodimethylamine  62B N-nitrosodimethylamine  62B N-nitrosodimethylamine  63B N-nitrosodimethylamine  63B N-nitrosodimethylamine  63B N-nitrosodimethylamine  66B bis(2-ethylhexyl)phthalate  66B bis(2-ethylhexyl)phthalate  66B bis(2-ethylhexyl)phthalate  67B butyl benzyl phthalate  68B di-n-octyl phthalate  69B di-n-octyl phthalate  70B diethyl phthalate  70B diethyl phthalate  70B diethyl phthalate  70B benzo(a)anthracene  70B bis(2-chlorosthyl)ether  70B benzo(a)pyrene  70B 2-chlorosthyl)ether  70B diethyl phthalate  70B benzo(a)pyrene  70B benzo(b)fluoranthene  70B 3,4-benzofluoranthene  70B chrysene  70B acenaphthylene  70B acenaphtylene  70B acenaphtylene  70B acenaphtylene  70B benzo(chlorostene  70B acenaphtylene  70B benzo(chlorostene  70B benzo(chlorostene  70B acenaphtylene  70B benzo(chlorostene		-		70
64A pentachlorophenol  65A phenol  7d  63B N-nitrosodiphenylamine  66B bis(2-ethylhexyl)phthalate  66B di-n-octyl phthalate  70B diethyl phthalate  70B diethyl phthalate  70B benzo(a)anthracene  70B bis(2-chlorophyl)ether  70B benzo(a)pyrene  70B chlorophylophylophylophylophylophylophylophyl				-
SASE/NEUTRAL COMPOUNDS   63B N-nitrosodi-n-propylamine   66B bis(2-ethylhexyl)phthalate   66B bis(2-ethylhexyl)phthalate   67B butyl phthalate   67B benzyl phthal				71
BASE/NEUTRAL COMPOUNDS  668 bis(2-ethylhexyl)phthalate  678 butyl benzyl phthalate  678 butyl benzyl phthalate  688 di-n-butyl phthalate  688 di-n-ctyl phthalate  688 di-n-butyl phthalate  698 di-n-ctyl phthalate  708 diethyl phthalate  708 diethyl phthalate  728 benzo(a)anthracene  738 benzo(a)pyrene  738 benzo(a)pyrene  748 3,4-benzofluoranthene  758 benzo(k)fluoranthene  758 benzo(k)fluoranthene  758 1,2-dichlorobenzene  758 chrysene  778 acenaphthylene  778 acenaphthylene  778 acenaphthylene  788 anthracene  788 anthracene  798 benzo(ghi)perylene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine  (as azobenzene)  828 dibenzo(a,h)anthracene				
### BASE/NEUTRAL COMPOUNDS    18   accessibilities	65A phenol	<u>na</u>		ne
18 acerashthene  58 benzielne  58 benzielne  59 di-n-octyl phthalate  59 diethyl phthalate  708 diethyl phthalate  718 dimethyl phthalate  728 benzo(a) anthracene  728 benzo(a) pyrene  738 benzo(a) pyrene  748 3,4-benzofluoranthene  758 1,2-dichlorobenzene  758 benzo(k) fluoranthene  758 1,3-dichlorobenzene  758 1,4-dichlorobenzene  758 3,3'-dichlorobenzene  758 acenaphthylene  758 anthracene  758 anthracene  758 anthracene  758 benzo(ghi) perylene  758 2,4-dinitrotoluene  758 phenzo(ghi) perylene  758 phenzo(ghi) perylene  758 1,2-diphenylhydrazine  758 phenzo(ghi) perylene				71
58 benzielne  88 1.2.4-trichlorobenzene  98 hexachlorobenzene  128 hexachloroethane  188 bis(2-chloroethyl)ether  208 2-chloroethyl)ether  258 1.2-dichlorobenzene  268 1.3-dichlorobenzene  278 1.4-dichlorobenzene  278 3.3'-dichlorobenzene  288 3.3'-dichlorobenzene  288 3.3'-dichlorobenzene  368 2.4-dinitrotoluene  368 2.6-dinitrotoluene  378 1.2-diphenylhydrazine (as azobenzene)  388 dibenzo(a,h)anthracene	BASE/REUTHAL CUMPOUNUS		6/8 Dutyl Denzyl phone late.	M
58 benzidine  88 1.2.4-trichlorobenzene  98 hexachlorobenzene  128 hexachloroethane  188 bis(2-chloroethyl)ether  208 2-chloroethyl)ether  208 2-chloroethylethene  258 1.2-dichlorobenzene  268 1.3-dichlorobenzene  278 1.4-dichlorobenzene  288 3.3'-dichlorobenzidine  358 2.4-dinitrotoluene  368 2.6-dinitrotoluene  378 1.2-diphenylhydrazine (as azobenzene)  389 dibenzo(a,h)anthracene	18 acenaphthene			
98 hexachlorobenzene 128 hexachloroethane 128 hexachloroethane 128 bis(2-chloroethyl)ether 208 2-chloroethyl)ether 208 2-chloroethylether 258 1,2-dichlorobenzene 258 1,3-dichlorobenzene 268 1,3-dichlorobenzene 278 1,4-dichlorobenzene 288 3,3'-dichlorobenzidine 358 2,4-dinitrotoluene 368 2,6-dinitrotoluene 378 1,2-diphenylhydrazine (as azobenzene) 388 dibenzo(a,h)anthracene	58 benzielne			41 41
128 hexachlorosthane	88 1,2,4-trichlorobenzene	-nd		
188 bis(2-chloroethyl)ether  208 2-chloroethyl)ether  208 2-chloroethylether  208 2-chloroethylether  208 2-chloroethylether  208 2-chloroethylether  208 3,4-benzofluoranthene  208 1,2-dichloroethylether  208 1,2-dichloroethylether  208 1,3-dichloroethylether  208 1,4-dichloroethylether  208 2-chloroethylether  208 2,4-dichloroethylether  208 2-chloroethylether  208 3,4-benzofluoranthene  208 2-chloroethylether  208 3,4-benzofluoranthene  208 2-chloroethylether  208 3,4-benzofluoranthene  208 2-chloroethylether  208 3,4-benzofluoranthene  208 2-chloroethylethere  208 3,4-benzofluoranthene  208 2-chloroethylethere  208 2-chloroethylethere  208 3,4-benzofluoranthene  208 2-chloroethylethere  208 2-chloroethylethylethere  208 2-chloroethylethylethylethylethylethylethylethyl	98 hexach1orobenzene	and		4
748 3,4-benzofluoranthene  258 1,2-dichlorobenzene  258 1,3-dichlorobenzene  278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  788 3,4-benzofluoranthene  758 benzo(k)fluoranthene  768 chrysene  778 acenaphthylene  788 anthracene  798 benzo(ghi)perylene  808 fluorene  818 phenanthrene	128 hexachleroethene			7
258 1,2-dichlorobenzene  268 1,3-dichlorobenzene  278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  758 benzo(k)fluoranthene  768 chrysene  778 acenaphthylene  788 anthracene  798 benzo(ghi)perylene  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	188 bis(2-chioroethyl)ether	and		<u> </u>
268 1,3-dichlorobenzene  278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  768 chrysene  778 acenaphthylene  788 anthracene  788 benzo(ghi)perylene  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	208 2-chloreneghthelene	und		7
278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  788 anthracene  798 benzo(ghi)perylene  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	258 1,2-dichlorobenzene	<u>nd</u>	· · · · · · · · · · · · · · · · · · ·	7
288 3,3°-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  788 anthracene  798 benzo(ghi)perylene  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	268 1,3-dichlorobenzene	nd		74
288 3.3'-dichlorobenzidine  358 2.4-dinitrotoluene  368 2.6-dinitrotoluene  378 1.2-diphenylhydrazine (as azobenzene)  788 anthracene  798 benzo(ghi)perylene  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	278 1,4-dichlorobenzene	and	نيواسيواييريادا الكانويواي موافي الموادية والموادية المواقع في مواقع الموقع بأواد الموادية والموادية والموادية والموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية والموادية والموادية والموادية	7
368 2.6-dimitrotoluene  378 1.2-diphenylhydrazine (as azobenzene)  808 fluorene  818 phenanthrene  828 dibenzo(a,h)anthracene	288 3,3'-dichlorobenzidine		والتابها ليكاو الكافر والمراب المستواني والمستوان والمستوان والمستوان والمناب والمستوانية	7/
378 1.2-diphenylhydrazine (as azobenzene)  818 phenanthrene 828 dibenzo(a,h)anthracene	35B 2,4-dimitrotoluene	m		71
378 1.2-diphenylhydrazine (as azobenzene)  818 phenanthrene  828 dibenzo(a,h)anthracene		m		7
(as azobenzene) M 828 dibenzo(a,h)anthracene				71
398 fluoranthene Md 838 indeno(1,2,3-cd)pyrene 2	(as azobenzene)			4
408 4-chiorophenyl phenyl ether 70 848 pyrene	398 fluoranthene			-vn

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID McClellan AFB		ES ID <u>820124</u>
BW #1	Alic	quot analyzed
Date Received 5 February 198	2 Detector Used:	: Coulson, EC, Flame, PI
Date analysed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
roclor 1016		
roclor 1221		
roclor 1232		
roclor 1242		
Aroclor 1248		
Aroclor 1254	<del></del>	
	- identificable Aroclor peaks	<u>/</u>
No :	dentificable Aroclor peaks  HERBICIDE REPORT  ERING-SCIENCE - BERKELEY LABO	
No :	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO	
No :	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO	ORATORY ES ID <u>820124</u>
ENGINE Sample ID <u>McClellan AFB</u>	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO Alic	ORATORY
ENGINE Sample ID McClellan AFB BW#1 Date Received 5 February 19	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO Alice S22 Detector Used	ES ID <u>\$20/24</u> Tuot analyzed
Engine Sample ID <u>McClellan AFB</u> BW#1	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO Alice S22 Detector Used	TES ID <u>\$20124</u> Quot analyzed  Coulson, EC, Flame, PI
ENGINE Sample ID McClellan AFB BW#1 Date Received 5 February 19	HERBICIDE REPORT ERING-SCIENCE - BERKELEY LABO Alic  ###################################	TES ID <u>\$20124</u> Quot analyzed  Coulson, EC, Flame, PI  Approved
EMGINE  Basple ID McClellan AFB  BW#1  Date Received 5 February 19  Date analyzed	HERBICIDE RÉPORT  ERING-SCIENCE - BERKELEY LABO  Alic  ()2. Detector Used  Chemist  Detection Limits (ppb)	TES ID <u>\$20124</u> quot analyzed  Coulson, EC, Flame, PI  Approved  Found (ppb)
EMGINE Basple ID <u>McClellan AFB</u> BW#1  Date Received <u>5 February 19</u> Date analyzed	HERBICIDE RÉPORT  ERING-SCIENCE - BERKELEY LABO  Alic  Chemist  Detection Limits (ppb)  0.001	ES ID <u>\$20/24</u> quot analyzed  Coulson, EC, Flame, PI  Approved  Found (ppb)

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# PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellon AFB		25 ID <u> </u>			
BW#1	Aliquot analyzed				
Date Received 5 February 1982	Detector Used	l: Coulson, EC, Flame, PID			
Date_analyzed	Chemist	ybbloseq			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BBC	0.002	<0.00Z			
Beta BHC	0.004				
Delta BHC	0.004				
Gamma BHC (lindane)	0.002	<0.002			
Chlordane	0.04				
DOD (TDE)	0.012	<0.0I			
DOE	0.006				
DOT	0.016	< 0.02			
Dieldrin	0.006				
Endosulfan I	0.005	<0.0 <b>3</b>			
Endosulfan II	0.01				
Endosulfan sulfate	0.03	<b>&lt;0.03</b>			
Endrin	0.009	<0.009			
Heptschlor	0.002	40.00 Z			
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	0.40				

### METALS REPORT FORM

Samp!	le ID Mc/	Yellon AFB
	BW #1	
Date	Received	5 February 1992
	analyzed	J

Aliquot analyzed

Method Used

Chemist ______ Approved ______

Elesent	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	40.05	
Berium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	20.01	
Calcius -		50			
Chromium (+3)	p,h,c,d,o	20	1 Stotal	0.055	-
Chromium (+6)	c		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	40.05	
Gold		100	1		
Iron	d	100	1		
Lesd	p,h,c,d,o	100	10	<b>40.01</b>	
Lithium		50	400		
Magnesium		1		g des dade sou de	
Manganese	đ	10	0.5		• ·• · · · · · · · · · · · · · · · · ·
Mercury	p,h,c,d,o	****	0.5	<0.001	
Molybdenus	c	500		· · · · · · · · · · · · · · · · · · ·	. The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
Nickel -	p,c,o	40	1	<b>⟨0.05</b>	V
Potassium		10		riging our constrain charge of	
Selenium	p,h,c,d		10	<b>40.01</b>	
Silicon		10			

		Detection	n Limit (ppb)		
-Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	2005	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.028	

codes: p = EPA priority pollutant h = EPA hazardous waste

_ c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

8/27/82

401 NORTH 16th STREET
SACRAMENTO, CALIFORNIA 95814
(916) 444-9602

### PRIORITY POLLUTANT DATA SHEET

CLIENT	6	Enrincering Science	CAL LAB NO	. 14087 - 2
CLIENT		βω z	And the second second	
			and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	•
		VOLATILES	ug/L	
-	2 <b>Y</b>	acrolein	ND	•
	3٧	acrylonitrile	ND	
	4٧	benzene	NO	
	6V	carbon tetrachloride	ND	
	74	chlorobenzene	NO	
	107	1,2-dichloroethane	NO	
	117	1,1,1-trichloroethane	*	
	137	1,1-dichloroethane	40	
	144	1,1,2-trichloroethane	10	
	157	1,1,2,2-tetrachloroethane	10	
	167	chloroethane	ko	
	197	2-chloroethylvinyl ether	NO	
	237	chloroform	· NO	
	297	1,1-dichloroethylene	175	
	30V	1,2-trans-dichloroethylene	NO	
	32V	1,2-dichloropropane	NO	
	337	1,3-dichloropropylene	NO	
	38V	ethylbenzene	100	
	447	methylene chîoride	N	•
	45V	methyl chloride	10	
	46V	methyl bromide	. 10	
	474	bromoform	M	
	487	dichlorobromomethane	No	
	49V	trichlorofluoromethane	NO	
	50 <b>Y</b>	dichlorodifluoromethane	ND	
	517	chlorodibromomethane	ND	
	85V	tetrachloroethylene	10	
	86V	toluene	10	= Less than 10 ug/L
	877	trichloroethylene		10 = Not detected
	V88	vinyl chloride	no	

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

### PRIORITY POLLUTANT DATA SHEET

T Engineering Science		CAL LAB NO. 140\$.7-2
ACTO COMPONING	- /1	BASE/NEUTRAL COMPOUNDS vg/L
ACID COMPOUNDS	µg/L	
1A 2,4,6-trichlorophenol	<u> 71d</u>	41B 4-bromophenyl phenyl ether 70/
2A p-chloro-m-cresol	41d	428 bis(2-chloroisopropyl)ether 700
4A 2-chlorophenol	nul	438 bis(2-chloroethoxy)methane
11A 2,4-dichlorophenol	<u> </u>	528 bexachlorobutadiene: 73
MAA 2,4-dimethylphenol	<u>Ind</u>	53B hexachlorocyclopentadiene Tri
57A 2-nitrophenol	411	548 isophorone 501
58A 4-nitrophenol	ynd	55B naphthalene 710
59A 2,4-dinitrophenol	nd	56B nitrobenzene ""
60A 4,6-dinitro-o-cresol	ynd	618 N-nitrosodimethylamine mc
64A pentachlorophenol	mil	62B N-nitrosodiphenylamine md
65A phenol	and	638 .N-nitrosodi-n-propylamine 710
		668 bis(2-ethylhexyl)phthalate 710
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate
18 acenaphthene	Gnd	688 di-n-butyl phthalate
58 benzidine	Sid	698 di-n-octyl phthalate
88 1,2,4-trichlorobenzene	51/	708 diethyl phthalate Tul
98 hexach1 orobenzene	410	718 dimethyl phthalate 700
128 hexachloroethane	- Yid	72B benzo(a)anthracene 110
188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene vid
208 2-chloronaphthalene		748 3,4-benzofluoranthene 54/
258 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene ' YH
268 1,3-dichlorobenzene	- ynd	768 chrysene yy
278 1,4-dichlorobenzene	nd	778 acenaphthylene
288 3,3'-dichlorobenzidine	- ned	788 anthracene
		798 benzo(ghi)perylene 797
358 2,4-dinitrataluene	<u>Ind</u>	80B fluorene
368 · 2,6-dini trotoluene	<u> Md</u>	818 phenanthrene
37B 1,2-diphenylhydrazine (as azobenzene)	Yid	828 dibenzo(a,h)anthracene
398 fluoranthene	Lind	83B indeno(1,2,3-cd)pyrene
408 4-chlorophenyl phenyl ether	ind	848 pyrene

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID McClellan AFB		ES ID <u>820/25</u>	_
BW #2	Alic	ruot analyzed	_
Date Received 5 Rebruary 1982	Detector Used:	Coulson, EC, Flame, PI	Œ.
Date analyzed	Chemist	ybbloaeq	_
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			<b>-</b>
Aroclor 1221			_
Aroclor 1232			_
Aroclor 1242			_
Aroclor 1248			-
Aroclor 1254	·		_
Aroclor 1260	<del>-</del>		<del>-</del>
	dentificable Aroclor peaks HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO		=
ENGINEZ	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO	DRATORY	<b>=</b>
ENGINEZ Sample ID <u>Mc Clellan AFB</u>	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO	DRATORY ES ID 820/25	_
ENGINEE Sample ID <u>Mc Clellan AFB</u> BW #2	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO Alic	ES ID <u>820/25</u> Tuot analyzed	_
Sample ID <u>Mc Ck/lan AFB</u> BW #2.  Date Received <u>5 February 193</u> .	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO Alice Detector Used	ES ID <u>820/25</u> Quot analyzed	_
Sample ID <u>Mc Ck/lan AFB</u> BW #2.  Date Received <u>5 February 193</u> .	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO Alic Detector Used Chemist	ES ID <u>820/25</u> Quot analyzed  Coulson, EC, Flame, PI  Approved	_
Sample ID Mc Ckllan AFB  BW #2.  Date Received 5 February 193.  Date analyzed	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO  Alic  Detector Used  Chemist  Detection Limits (ppb)	ES ID <u>820/25</u> Quot analyzed	_
Sample ID <u>Mc Ck/lan AFB</u> BW #2.  Date Received <u>5 February 193</u> .	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO Alic Detector Used Chemist	ES ID <u>820/25</u> Quot analyzed  Coulson, EC, Flame, PI  Approved	_
Sample ID Mc Clellan AFB  BW #2  Date Received 5 February 1932  Date analyzed	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO  Alic  Detector Used  Chemist  Detection Limits (ppb)	ES ID <u>820/25</u> Quot analyzed  Coulson, EC, Flame, PI  Approved  Found (ppb)	_
Sample ID Mc Ckilan AFB  BW #2  Date Received 5 February 193  Date analyzed  2,4,5	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO  Alic  Detector Used  Chemist  Detection Limits (ppb)	ES ID 820/25  [uot analyzed	_
ENGINEER  Sample ID Mc Clellan AFB  BW #2.  Date Received 5 February 193.  Date analyzed  2,4,5	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO  Alic  Detector Used  Chemist  Detection Limits (ppb)  0.001  0.002	ES ID 820/25  [uot analyzed	_
ENGINEER  Sample ID Mc Clellan AFB  BW #2  Date Received 5 February 193  Date analyzed  2,4,5  2,4,5,T  2,4,5 TP (Silvex)  DECF (Dibrosochtoro propane	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABO  Alic  Detector Used  Chemist  Detection Limits (ppb)  0.001  0.002	ES ID 820/25  Quot analyzed  Coulson, EC, Flame, PI  Approved  Found (ppb)  0.04  0.18	_

# PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID McClellan AFB	es id <u>820/25</u>			
RW#2	Aliquot analyzed			
Date Received 5 February 19.	32 Detector Used:	Coulson, EC, Flame, PID		
Nate analyzed	Chemist	Approved		
	Detection Limits (ppb)	Found (ppb)		
ldrin	0.003			
lpha BHC	0.002	0.12		
leta BHC	0.004			
Delta BHC	0.004			
Samma BHC (lindane)	0.002	0.06		
hlordane	0.04			
ODD (TDE)	0.012	<0.01		
OE	0.006			
DDT	0.016	40.02		
Meldrin	0.006			
ndosulfan I	0.005	0.03		
ndosulfan II	0.01			
ndosulfan sulfate	0.03	0.17		
ndrin	0.009	40.009		
leptachlor	0.002	0.05		
Septachlor epoxide	0.004			
le thorychlor	0.02	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
l'oxaphene	0.40	- Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp		
	dentifiable pesticide peaks			

64/23

- 25

### METALS REPORT FORM

Sample ID Mc Clellon AEB					120125
BW #2				Aliquot analyzed	
Date Received	5 Februar 1982	,		Method Used	
Date analyzed		Chemist		Approved	
		<del></del>			
Element	Code	Detection L Flame	imit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>&lt;0.01</b>	
Calcium		50		·	
Chromium (+3)	p,h,c,d,o	20	1 260	al < 0.05	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.0 <b>5</b>	
Gold		100	1	_	
Iron	d	100	1	_	
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesium		1		<del></del>	
Manganese	đ	10	0.5	<del></del>	
Mercury	p,h,c,d,o		0.5	<0.001	
Molybdenus	c	500		- Company of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of the Conference of	
Nickel	р,с,о	40	1	<0.05	
Potassima		10			
Selenium	p,h,c,d		10	< 0.01	
Silicon		10	***		

64/18

8/27/82

Element	Code	Detection	Limit (ppb) Flameless	Detected	Limit
			TIAMETERS.		
Silver	p,h,c,d,o	50	<u> </u>	<u> </u>	
Sodium		10			
Thallium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.02	

codes: p - EPA priority pollutant h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking watero - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY-

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

### PRIORITY POLLUTANT DATA SHEET

CLIENT		Engineering Science	CAL LAB	NO. 14087-3
CLIENT	I.D	BW 8	<del></del>	
		VOLATILES	ug/L	
	27	acrolein	ND	
	3٧	acrylonitrile	۵۵	
	4٧	benzene	NO	
	<b>6</b> V	carbon tetrachloride	NO	
	77	chlorobenzene	ND	
	104	1,2-dichloroethane	NO	
	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	NO	
	147	1,1,2-trichloroethane	NO	
	157	1,1,2,2-tetrachloroethane	NO	
	167	chloroethane	NO	
	197	2-chloroethylvinyl ether	ND	
,	234	chloroform	· ~	
	297	1,1-dichloroethylene	NO	
	307	1,2-trans-dichloroethylene	LO	
	324	1,2-dichloropropane	CN	
	33V	1,3-dichloropropylene	NO	
	387	ethy1benzene	NO	_
	447	methylene chloride	NO	_
	457	methyl chloride	10	
	46V	methyl bromide	NO	
	47 <b>Y</b>	bramaform	NO	•
	48V	dichlorobromomethane	NO	
	497	trichlorofluoromethane	<u> </u>	
	50 <b>V</b>	dichlorodifluoromethane	<u> </u>	
	517	chlorodibromomethane	NO	
	85V	tetrachloroethylene	10	
	86V	toluene	no	* = Less than 10 ug/L
	877	trichloroethylene	NO	ND = Not detected
	887	viny1 chloride	no	

401 NORTH 10IN STREET SACRAMENTO, CALIFORNIA 25814 (818) 444-8807

## PRIGRITY POLLUTANT DATA SHEET

ENT	Engineering Science	- <del> </del>	CAL LAB NO. 14037-3
			CLIENT I.D. RIUK
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS 49/L
21A	2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether 91%
22A	p-chloro-m-cresol	und	42B bis(2-chloroisopropyl)ether TU
24A	2-chlorophenol	nd	438 bis (2-chloroethoxy) me thane 410
31A	2,4-dichlorophenol	int	52B bexach1orobutadiene 716
34A	2,4-dimethylphenol	-nd	53B hexachlorocyclopentadiene ma
57A	2-ni trophenol	·und	548 isopherone mc
58A	4-ni trophenol	and	558 naphthalene M
59A	2,4-dinitrophenol	nd	568 nitrobenzene mg
60A	4,6-dinitro-o-cresol	41d	618 N-nitrosodimethylamine MC
64A	pentach lorophenol	hid	62B N-nitrosodiphenylamine no
65A	phenėl	nd	638 , N-nitrosodi-n-propylamine MC
	·		66B bis(2-ethylhexyl)phthelate Mc
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthelate ME
16	acenaphthene	711	688 di-n-butyl phthelate
	benzidine .	nd	698 di-n-octyl phthalate
-	1,2,4-trichlorobenzene	Fid	708 diethyl phthelate 71
	hexach l'orobenzene	Ind	71B dimethyl phthalate 70
	hexach lorgethene	nd	72B benzo(a)anthracene
	bis(2-chloroethy1)ether	nd	738 benzo(a)pyrene ~11
	2-chigreneghthelene	7rd	748 3,4-benzofluoranthene
	1,2-dichlorobenzene	410	758 benzo(k)fluoranthene ' ''
	1,3-dichlorobenzene	na.	768 chrysene 71
		nd	778 acenaphthylene 71
-	1,4-dichlorebenzene	4 rd	788 anthracene 71
	3,3'-dichlorobenzidine	41d	798 benzo(ghi)perylene ne
	2,4-dimitrotoluene	714	808 fluorene
	2,6-dinitrotoluene	1161	818 phenanthrene 91/
378	1,2-diphenylhydrazine (as azobenzene)	nd	828 dibenzo(a,h)anthracene . 71/
398	fluoranthene	nd	83B indeno(1,2,3-cd)pyrene n
	4-chlorophenyl phenyl ether	nd	848 pyrene 49

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64/23

#### Aroclor (PCB) report ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID McKeilan AT		ES ID 820/24
8W8	Alique	ot analyzed
Date Received 5 Feir	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclar 1242		
Aroclor 1248		···
krocier-1254		
Aroclor 1260	o identificable—Aroclor peaks	
roclor 1260		
Aroclor 1260  EMGI  Bample ID McChilan	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE	
Aroclor 1260  ENGI  Sample ID //c Cliffen /	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE	ATORY
Sample ID Mc Chilan	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE ALIQUE	ES ID _820/26
Engle ID Mc Chillan A Bul 8 Date Received 5 4 st 8	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE ALIQUE	ES ID 820/26 ot analyzed
Aroclor 1260  ENGI  Sample ID //c Cliffen /	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE  Alique  Chemist	ES ID <u>\$20/26</u> ot analyzed Coulson, EC, Flame, PID
EMGI Sample ID //c Clulian / Bu/8 Date Received 5 feb 8	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABORE Alique Chemist	ES ID 820/26 ot analyzed Coulson, EC, Flame, PID Approved
EMGI Sample ID McChilan / Bul 8 Date Received 5 fub 8 Date analyzed	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABOR  Alique Detector Used:  Chemist  Detection Limits (ppb)	ES ID <u>\$20/26</u> ot analyzed Coulson, EC, Flame, PID Approved Found (ppb)
Engle ID Mc Chillan A Bul 8 Date Received 5 4 st 8	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LABOR  Alique Detector Used:  Chemist  Detection Limits (ppb)	ES ID <u>\$20/26</u> ot analyzed Coulson, EC, Flame, PID Approved Found (ppb)

9/30/82

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# PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

BW #9	Aliquot analyzed		
Date Received 5 February 1982	Detector Use	ed: Coulson, EC, Flame, PID	
ete analysed	Chemist	Approved	
	Detection Limits (ppb)	Found (ppb)	
ldrin	0.003		
lipha BBC	0.002	0.26	
Beta BHC	0.004		
Delta BHC	0.004		
Gamma BBC (lindane)	0.002	<0.002	
Chlordane	0.04		
DOD (TDE)	0.012	<b>ζο.</b> δι	
DOE	0.006		
DDT	0.016	(0.02	
Dieldrin	0.006	· · · · · · · · · · · · · · · · · · ·	
Endosulfan I	0.005	<0.00 <del>5</del>	
Indosulfan II	0.01		
Endosulfan sulfate	0.03	<u> </u>	
Endria	0.009	L0.009	
Septachlor	0.002	40.00 _. 2, _	
Heptachlor epoxide	0.004		
Methoxychlor	0.02		
Toxaphene	0.40		

64/23

Sample ID McClelion AFB ES ID <u>820/26</u> Aliquot analyzed _____ BW # 8 Date Received 5 February 1982 Method Used Approved _____ Date analyzed Chemist Detection Limit (ppb)
Flame Flameless Element Code Detected Limit Aluminum 500 50 500 10 Antimony p,c 10.005 Arsenic p,h,c,d,o 10 < 0.05 5 Barium h.c.d 1,000 Beryllium p,c, Cadmium 5 0.1 p,h,c,d,o <0.01 50 Calcium-20 1 Potal Chromium (+3) p,h,c,d,o <0.05 رود Chromium (+6) c Cobalt" 50 1 20 Copper p,c,d,o 1 <0.05 Gold 100 1 Iron 100 1 Lesd 100 10 p,h,c,d,o **40.01** 50 Lithium 1 Magnesium 0.5 đ 10 Manganese Mercury p,h,c,d,o 0.5 <0.001 Molybdenum ... 500 Nickel .... 40 1 p,c,o 20.05 Potassium 10 Selenium p,h,c,d 10 < 0.01

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64/18

Silicon

8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium	,	10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<0.02	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

ELEY LABORATORY
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R/27/82

8-133

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (918) 444-9802

### PRIORITY POLLUTANT DATA SHEET

CLIENT	E	ngineening Science	CAL LAB	NO. 14087-4
CLIENT		3W !1		
	<del></del> _		42	
		VOLATILES	<u>ug/L</u>	
	27	acrolein	ND	
	_3V	acrylonitrile	סמ	
	4٧	benzene	NO	
	_6V	carbon tetrachloride	ND	
	<u>7V</u>	chlorobenzene	NO	-
	107	1,2-dichloroethane	NO	
	177	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	NO	
	144	1,1,2-trichloroethane		
	15V	1,1,2,2-tetrachloroethane	ND	
	167	chloroethane	ND	
	197	2-chloroethylvinyl ether	NO	
	23V	chloroform	· NO	
	29V	1,1-dichloroethylene	No	
	30V	1,2-trans-dichloroethylene	NO	
	32V	1,2-dichloropropane	no	
	33V	1,3-dichloropropyleme	NO	
	38V	ethylbenzene	NO	•
	447	methylene chloride	NO	ŕ
	45V	methyl chloride	NO	
	46V	methyl bromide	NO	
	47٧	bromoform	<u> </u>	•
	48V	dichlorobromomethane	AD	
	497	trichlorofluoromethane	1D	
	50V	dichlorodifluoromethane	no	
	51V_	chlorodibromomethane	ND	
	85V_	tetrachloroethylene	NO	
	86V_	toluene	no	* = Less than 10 ug/l
	87V	trichloroethylene	No.	_ND = Not detected
	887	vinyl chloride	10	•
	ــــــــــــــــــــــــــــــــــــــ			· _

والمتعادة

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

## PRIORITY POLLUTANT DATA SHEET

NT	Engineering S	cience		CAL LAB NO. 1408.7 CLIENT I.D. Bu	
	ACID COMPOUNDS	μ <b>g/</b> L	ВА	SE/NEUTRAL COMPOUNDS	ν <b>9/</b> ί
21A 2	4,6-trichlorophenol	nd	418	4-bromophenyl phenyl ether	ind
	-chloro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	· rid
	-chlorophenol	410	43B	bis(2-chloroethoxy)methane	rid
	,4-dichlorophenal	nd	52B	bexach1orobutadiene	UNC.
	,4-dimethylphenol	and	53B	hexachlorocyclopentadiene	710
57A 2	-nitrophenol	end	548	isophorone	and
	-nitrophenol	ind	55B	naphthalene	na
	,4-dinitrophenol	nd	56B	nitrobenzene	71:
60A 4	,6-dinitro-o-cresol	nd	61B	N-nitrosodimethylamine	my
64A p	entach lorophenol	nd	62B	N-ni trosodi phenylamine	nd
65A p	henol	nd	638	, N-ni trosodi -n-propylamine	no
			66B	bis(2-ethylhexyl)phthalate	nd
4	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	Sna
1B ac	enaphthene	nd	688	di-n-butyl phthalate	na
	naidine	nd	698	di-n-octyl phthalate	Sincl
	2.4-trichlorobenzene	Sud	70B	diethyl phthalate	no
	xach l orobenzene	4nd	<u>718</u>	dimethyl phthalate	Til.
	exachloroethane	'nd	728	benzo(a)anthracene	C.71.
	Is (2-ch loroethy 1) ether	rid	738	benzo(a)pyrene	-11
	-chi gronaph tha i ene	Ind	74B	3,4-benzofluoranthene	المذ
-	,2-dichlorobenzene	Grid	<u>758</u>	benzo(k)fluoranthene	71
	,3-dichlorobenzene	nd	76B	chrysene	4
	,4-dichiorobenzene	nd	778	acenaphthylene	-n
	,3'-dichlorobenzidine	· 41d	788	anthracene	711
	,4-dinitrotoluene	nd	798	benzo(ghi)perylene	יר.
	,6-dinitrotoluene	nd	808	3 fluorene	7
	,2-diphenylhydrazine		818	3 phenanthrene	m
	as azobenzene)	nd	828	dibenzo(a,h)anthracene	. 71
398 f	Tuoranthene	nd	839	B indeno(1,2,3-cd)pyrene	ري .
40B 4	-chlorophenyl phenyl ethi	er yid	848	3 pyrene	ا <b>ر</b> ت ا

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#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

ample ID Mc Clellan AFB	_	ES ID <u>820/27</u>
BW #11	_ Alie	quot analyzed
ete Received 5 February	1982 Detector Used	: Coulson, BC, Flame, PID
ate analyzed	Chemist	ybbrosed
	Detection Limits (ppb)	Found (ppb)
roclor 1016		
roclor 1221		
roclor_1232		
roclor 1242		
Araclor 1248		
troctor 1254		
No	identificable Aroclor peaks HERBICIDE REPORT	
No	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB	ORATORY
ENGINI Sample ID Mc Clellan AFB	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB	
ENGINI Sample ID <u>Mc Clellan AFB</u> BW#11	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB	ORATORY
ENGINI Sample ID Mc Clellon AFB	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB	ORATORY ES ID <u>820/27</u>
ENGINI  Sample ID Mc Clellan AFB  BW#11  Date Received 5 February 5	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB  Ali  Detector Used	ES ID <u>820/27</u> quot analyzed
ENGINI Sample ID Mc Clellon AFB BW#11	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB  Ali  Detector Used	COULSON, EC, Flame, PID
ENGINI  Sample ID Mc Clellon AFB  BW#11  Date Received 5 February F	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB  Ali  Chemist	CRATORY  ES ID <u>820/27</u> quot analyzed  : Coulson, EC, Flame, PID  Approved
ENGINI  Sample ID Mc Clellon AFB  Bull #11  Date Received 5 February Front Sete analyzed	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB  Ali  Chemist  Detection Limits (ppb)	CRATORY  ES ID <u>220/27</u> quot analyzed  : Coulson, EC, Flame, PID  Approved  Found (ppb)
ENGINI  Sample ID Mc Clellan AFB  BW#11  Date Received 5 February 5	HERBICIDE REPORT EERING-SCIENCE - BERKELEY LAB  Ali  Chemist  Detection Limits (ppb)  0.001  0.002	CRATORY  ES ID <u>\$20,027</u> quot analyzed  : Coulson, EC, Flame, PID  Approved  Found (ppb)  0.02

9/30/82

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#### PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Chellan AFB		ES ID <u>82012?</u>
BW #11	Alic	quot analyzed
Date Received 5 February 1982	Detector Used:	: Coulson, EC, Flame, PID
Date analyzed	Chemist	ybbioneq
	Detection Limits (ppb)	Found (ppb)
Midrin	0.003	
Alpha BHC	0.002	< 0.002
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	0.08
Chlordane	0.04	
DDD_(TDE)	0.012	0.07
DOE	0 <u>.0</u> 06	
DDT	0.016	20.02
Dieldrin	0.006	
Endosulfan I	0.005	0.09
Endosulfan II	0.01	
Endosuífan sulfate	0.03	<0.03
Endrin	0.009	<0.009
<b>Heptachlor</b>	0.002	40.002
Heptachlor epoxide	0.004	
Methoxychlor	C. 02	
Toxaphene	0.40	

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9/30/82 2-137

Sample ID McC				ES ID	820127	
<u> </u>				Aliquot analyzed		
Date Received	5 February 198	<b>1</b> 2		Method Used	<del></del>	
Date Received 5 February 1982 Date analyzed		Chemist _		Approved		
<del></del>	<del></del>	Descenden I d	-4	<del></del>	<del></del>	
Element	Code	Detection Li Flame	Flameless	Detected	Limit	
Aluminum		500	50			
Antimony	p,c	500	10	<0.005		
Arsenic	p,h,c,d,o		10	<0.05		
Barius	h,c,d	1,000	5		<del></del>	
Beryllium	p,c,					
Cedmium	p,h,c,d,o	5	0.1	<0.01		
Calcium		50				
Chromium (+3)	p,h,c,d,o	20	1 Etot	al 40.05		
Chromium (+6)	C		19)		· · · · · · · · · · · · · · · · · · ·	
Cobalt		50	1	······································		
Copper	p,c,d,o	20	1	<0.05		
Gold		100	1			
Iron	đ	100	1	-: -:		
Lead -	p,h,c,d,o	100	10	<0.01		
Lithium		50				
Magnesium		1		,		
Manganese	đ	10	0.5			
Mercury	p,h,c,d,o		0.5	0.001		
Molybdenum	c	500				
Nickel	p,c,o	40	1	<i>40.05</i>		
Potassium		10				
Selenium	p,h,c,d		10	<0.01		
Silicon		10				

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8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Stiver	p,h,c,d,o	50	1	∠0.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	0.097	

codes: p - EPA priority pollutant
h - EPA hazardous waste
c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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401 NORTH 18th STREET
SACRAMENTO, CALIFORNIA 95814
(918) 444-9602

# PRIORITY POLLUTANT DATA SHEET

CLIENT		Engineering Science	CAL LAB N	NO. 14087-5
CLIENT	I.D	BW 12	·	
		WALETTE ES	ne/i	en la entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la company
		VOLATILES	<u>ug/L</u>	
-	27	acrolein	<u> </u>	
	37	acrylonitrile	<u> </u>	
•	4٧	benzene	<u>~</u>	
-	6V	carbon tetrachloride	ND	
•	<u>7V</u>	chlorobenzene	N/O	
	100	1,2-dichloroethane	NO	
-	117	1,1,1-trichloroethane	10	
· -	13V	1,1-dichloroethane		
	147	1,1,2-trichloroethane	ND	
	157	1,1,2,2-tetrachloroethane	NO.	
	167	chloroethane	NO	
	197	2-chloroethylvinyl ether	<u> </u>	
,	237	chloroform	NO	
	297	1,1-dichloroethylene	10	
	30 <b>V</b>	1,2-trans-dichloroethylene	NO	
	327	1,2-dichloropropane	10	
	337	1,3-dichloropropylene	NO	
	387	ethy l benzene	ND	-
	447	methylene chloride	NO	•
	45V	methyl chloride	10	
	46V	methyl bromide	· MO	
	478	bromoform	M	
	487	dichlorobromomethane	NO	
	497	trichlorofluoromethane	NO	
	507	dichlorodifluoromethane	ro	
	517	chlorodibromomethane	<u>nn</u>	
	85V	tetrachloroethylene	N	
	86V	toluene	no	* = Less than 10 ug/L
	879	trichloroethylene	NO.	ND = Not detected
	889	vinyl chloride	NO	
			<del></del>	

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8602

## PRIORITY POLLUTANT DATA SHEET

NT Engineering Science	0	CAL LAB NO	<u>5</u>
	<del></del> -	CLIENT 1.0. BW 12	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	und	41B 4-bromophenyl phenyl ether	nd
22A p-chloro-m-cresol	and	42B bis(2-chloroisopropyl)ether	nsi
24A 2-chlorophenol	411	438 bis(2-chloroethoxy)methane	MI
31A 2,4-dichlorophenol	Yid	52B bexachlorobutadiene	$\eta g$
34A 2,4-dimethylphenol	TID	53B hexachlorocyclopentadiene	4210
57A 2-ni trophenol	710	548 isophorone	410
58A 4-nitrophenol	71d	55B naphthalene	nd
59A 2,4-dinitrophenol	4nd	56B nitrobenzene	yrd
60A 4,6-dinitro-o-cresol	and	618 N-nitrosodimethylamine	710
64A pentach]orophenol	rid	62B N-nitrosodiphenylamine	אצו
65A pheno1	nd	63B .N-nitrosodi-n-propylamine	710
		66B bis(2-ethylhexyl)phthalate	311
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	711
18 acenaphthene	Ind	688 di-n-butyl phthalate	7.10
58 benzidine	md	698 di-n-octyl phthalata	nd
88 1,2,4-trichlorobenzene	nd	70B diethyl phthalate	nd
98 hexachlorobenzene	nd		nd
128 hexachloroethene	nd		rnd
188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	711
20B 2-ch] gronaph tha lene	'ná	74B 3,4-benzofluoranthene	711
25B 1,2-dichlorobenzene	nd	75B benzo(k)fluoranthene '	710
268 1,3-dichlorobenzene	nd	76B chrysene	الانتها
278 1,4-dichlorobenzene	nd	778 acenaphthylene	710
288 3,3'-dichlorobenzidine	'nd	788 anthracene	710
35B 2,4-dinitrotoluene	Ind	79B benzo(ghi)perylene	71/1
368 · 2,6-dinitrotoluene	nd	80B fluorene	712
378 1,2-diphenylhydrazine		818 phenanthrene	716
(as azobenzene)	<u>nd</u>	828 dibenzo(a,h)anthracene	711
398 fluoranthene	nd	838 indeno(1,2,3-cd)pyrene	Mi
408 4-chlorophenyl phenyl ether	nd	848 pyrene	-110

100

64/23

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

sample ID Mc Clellon AFB	ES ID <u>820/28</u>	
BW # 12	Aliquot analyzed	
its Received 5 February 1982	Detector Used: Coulson, EC, Flame	, PID
ate analyzed	Chemist Approved	
	Detection Limits (ppb) Found (ppb	)
roclor 1016		
oclor 1221		
roelor 1232		
roclor 1242		
roclor 1248		
roclor 1254	<0.08	
No id	dentificable—Aroclor peaks  HERBICIDE REPORT	
No id	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY	
ENGINEE Ample ID McClellan AFS	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20</u>  22	
ENGINEE ample ID <u>McClellan AFS</u> Bu #12	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20124</u> Aliquot analyzed	
ENGINEE ample ID <u>McClellan AFS</u> Bu) \$12	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20124</u> Aliquot analyzed  Detector Used: Coulson, EC, Flame	
ENGINEE Ample ID <u>Mc Clellan AFS</u> Bu \$12 ate Received 5 February PR	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20 22</u> Aliquot analyzed  Detector Used: Coulson, EC, Flame	
ENGINEE ample ID <u>McClellan AFB</u> Bul \$12 ata Received 5 February ASA	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20 22</u> Aliquot analyzed  Detector Used: Coulson, EC, Flame	, PID
ENGINEER  ample ID McClellan AFB  Bu #12  ate Received 5 February PRA  ate analyzed	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20/22</u> Aliquot analyzed  Detector Used: Coulson, EC, Flame Chemist Approved	, PID
	dentificable—Aroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20124</u> Aliquot analyzed  Chemist Approved  Detection Limits (ppb) Found (ppb	, PID
ENGINEER  ample ID McClellan AFB  Bu #12  ate Received 5 February PR  ate analyzed  .4.D	HERBICIDE REPORT RING-SCIENCE - BERKELEY LABORATORY  ES ID <u>\$20/22</u> Aliquot analyzed  Chemist Approved  Detection Limits (ppb) Found (ppb  0.001	, PID

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# PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellan AFB		es id <u>820123</u>			
BW #12	λì	iquot analyzed			
Date Received 5 February 1922	Detector Used: Coulson, EC, Flame, PID				
Date analyzed	Chemist	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003	• .			
Alpha BHC	0.002	0.003			
Beta BHC	0.004	40.004			
Delta BHC	0.004				
Gasma BHC (lindane)	0.002				
Chlordane	0.04	•••••			
DOD (TDE)	0.01 <i>T</i>				
DOE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005	<0.005			
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
Endrin	0.009				
Heptachlor	0.002	(0.002			
Heptachlor epoxide	0.004				
Methoxychlor	Ö.02				
Toxaphene	0.40				

64/23

Sample ID McC BW# 12				ES ID Aliquot analyzed	820 128
Date Received 5 February 1922		Chemist		Method UsedApproved	
Element	Code	Detection :	Limit (ppb) Flameless	Detected	Limit
luminum		500	50		
Intimony	p,c	500	10	L0.005	
Arsenic .	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		56	***		
Chromium (+3)	p,h,c,d,o	20	1 76	ratal 40.05	
Chromium (+6)	c	444	10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.05	
Gold		100	1		
Iron.	đ	100	1		
Lesd	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesium	•	1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.001	
Molybdenum	c	500			
Nickel	p,c,o	40	1	40.05	
Potassium		10			
Selenium	p,h,c,d		10	(00)	

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64/18

Silicon

8/27/82

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Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
PTEMETIC	Code	1.7406	LIGMETERS		
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<0.02	

codes: p - EPA priority pollutant
h - EPA hazardous waste
c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water
o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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8/27/82

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401 NORTH 16th STREET
SACRAMENTO, CALIFORNIA 95814
(916) 444-9802

#### PRIORITY POLLUTANT DATA SHEET

		PRIORITY POLLUTANT DATA S	HEEI	
CLIENT	Eng	incering Science	CAL LAB	NO. 14087 -6
CLIENT	1.0.	BW 13		
			· · · · · · · · · · · · · · · · · ·	
-		VOLATILES	<u>ug/L</u>	
	27	acrolein	NO	
	_3V	acrylonitrile	ou	
	4٧	benzene	110	
	_6V	carbon tetrachloride	NI)	
	_7Y	chlorobenzene	NO	
	100	1,2-dichloroethane	NO	
	117	1,1,1-trichloroethane	W	
	137	1,1-dichioroethane	A10	
	144	1,1,2-trichloroethane	NO.	
	157	1,1,2,2-tetrachloroethane	<u>no</u>	,
	167	chloroethane	no	
	190	2-chloroethylvinyl ether	10	
	23V	chloroform	. AD	
	29V	1,1-dichloroethylene	NO	
	30V	1,2-trans-dichloroethylene	AO	
	324	1,2-dichloropropane	NO	
	33V	1,3-dichloropropylene	no	
	38V	ethy1benzene	NO	
	447	methylene chloride	NO	
	45V	methyl chloride	NO	
	46V	methyl bromide	· ND	
	47 <b>V</b>	bromoform	no	
	48V	dichlorobromomethane	NO	
	497	trichlorofluoromethane	NO	
	50V	dichlorodifluoromethane	140	
	514	chlorodibromomethane	MD	
	85V	tetrachloroethylene	MD	
	867	toluene	no	* = Less than 10 ug/
	877	trichloroethylene	10	ND = Not detected
	88V	vinyl chloride	NO	
		<u>ا من مان کا استان کا دروان می برون به دروان کا بیک تاریخی با نیز و بی و با آهی و در بی برون و داریخ</u>		-

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401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

NT Enrincening	Science	CAL LAB NO. 14087-6	
		CLIENT I.D. BUC-12	
ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	9/L
21A 2,4,6-trichiorophenol	nd	41B 4-bromophenyl phenyl ether 💆	rd,
22A p-chloro-m-cresol	ind	42B bis(2-chloroisopropy1)ether ~	nd
24A 2-chlorophenol	711	43B bis(2-chloroethoxy)methane	nd
31A 2,4-dichlorophenol	710		na
34A 2,4-dimethylphenol	<u>nd</u>	53B hexachlorocyclopentadiene	71()
57A 2-nitrophenol	na		70
58A 4-nitrophenol			70
59A 2,4-dinitrophenol	<u>nd</u>		no
60A 4,6-dinitro-o-cresol	nd	<del></del>	111
64A pentachlorophenol	<u>und</u>	62B N-nitrosodiphenylamine	71
65A pheno1	<u>*</u>	63B N-nitrosodi-n-propylamine	Ju.
		66B bis(2-ethylhexyl)phthalate	7
BASE/NEUTRAL COMPOUNDS	1	678 butyl benzyl phthalate	7
18 acenephthene	and	688 di-n-butyl phthalate	71
5B benzidine	nd		אר אר
88 1,2,4-trichlorobenzene	<u>nd</u>	708 diethyl phthalate 718 dimethyl phthalate	ni
9B hexachlorobenzene	<u>yrd</u>		ne
128 hexachloroethane	nd		m
188 bis(2-chloroethyl)ether	nd_	748 3,4-benzofluoranthene	4
208 2-chieronaphthaiene	ind		-cN
258 1,2-dichlorobenzene	<u>nd</u>	76B chrysene	71
26B 1,3-dichlorobenzene	710	778 acenaphthylene	7/
278 1,4-dichlorobenzene	<u>nd</u>	788 anthracene	71
288 3,3'-dichlorobenzidine	- 714	798 benzo(ghi)perylene	41
358 2,4-dinitrotoluene	- Jud	80B fluorene	٠-٧
368 ·2,6-dinitrotoluene	<u>Jud</u>	818 phenanthrene	- '- '- '- '- '- '- '- '- '- '- '- '- '-
378 1,2-diphenylhydrazine (as azobenzene)	Jud	828 dibenzo(a,h)anthracens	7
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	بر
408 4-chlorophenyl phenyl ether		848 pyrene	-

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID McClellan AFB	<del></del>	ES ID <u>820/29</u>
BW #13	Ali	quot analyzed
Dete Received 5 February	1982 Detector Used	: Coulson, EC, Flame, PID
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		· <del></del> ·
Aroclor 1254		<0.08
Aroclor 1260	- identificable Aroclor peaks	
Aroclor 1260		
Aroclor 1260 No	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LAB	
Aroclor 1260 No ENGIN	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LAB	ORATORY
Aroclor 1260  Resemble ID <u>Mc Clellan AFB</u> BW #13	HERBICIDE REPORT NEERING-SCIENCE - BERKELEY LAB	ORATORY ES ID <u>820129</u>
Received 5 February	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LAB  Ali	ORATORY  ES ID <u>\$20129</u> quot analyzed
Aroclor 1260	HERBICIDE REPORT MEERING-SCIENCE - BERKELEY LAB  Ali	ORATORY  ES ID <u>\$20/29</u> quot analyzed  : Coulson, EC, Flame, PIL
Aroclor 1260  No Engli Sample ID Mc Chellan AFB  Bul #13  Date Received 5 February	HERBICIDE REPORT NEERING-SCIENCE - BERKELEY LAB Ali	CRATORY  ES ID <u>820/29</u> quot analyzed  : Coulson, EC, Flame, PID  Approved
Aroclor 1260  Resident ID Mc Clellan AFB  But #13  Date Received 5 February  Date analyzed	HERBICIDE REPORT NEERING-SCIENCE - BERKELEY LAB  Ali  Detector Used  Chemist  Detection Limits (ppb)	QUOT analyzed  Coulson, EC, Plame, PID  Approved  Found (ppb)
Engli Sample ID Mc Clellan AFB But #13 Date Received 5 February	HERBICIDE REPORT NEERING-SCIENCE - BERKELEY LAB  Alia  Chesist  Detector Used  Chesist  Detection Limits (ppb)	ORATORY  ES ID <u>\$20/29</u> quot analyzed  : Coulson, EC, Flame, PID  Approved  Found (ppb)

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#### PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID. Mc Clellon AFB		es ID <u>820129</u>
BW #13	Mliq	uot analyzed
Date Received <u>5 February 198</u> 2	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BRC	0.002	0.004
Beta BHC	0.004	<0.004
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	· ·-
Chlordane	0.04	
DDD (TDE)	0.012	
DOE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	<0.005
Endosulfan II	0.01	
Endosulfan sulfate	0.03	<del></del>
Endrin .	0.009	
Heptachlor	0.002	40.002
Heptachlor epoxide	0.004	
Mark sh 6	0.02	Marine Court of the Marine Court of the Cour
Methoxychlor		

Sample ID Mc	Cleilon AFB 13			ES ID Aliquot analyzed	820189
Date Received				Method Used	
Date analyzed		Chemist	<del></del>	Approved	<del></del>
Element	Code	Detection L Flame	imit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<i>&lt;0.005</i>	
Arsenic	p,h,c,d,o	464	10	20.05	
Barium	h,c,d	1,000	5		·
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 }6	tal <0.05	
Chromium (+6)	C		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>&lt;0.01</b>	
Lithium		50	****		
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.001	
Molybdenum	c	500			
Nickel	p,c,o	40	1	<0.05	
Potassium	**************************************	10	¹ 2.		
Selenium	p,h,c,d		10	20.01	
\$111con		10			

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	Z0.05	
Sodium		10			
Thallium	p,c,			# was to the t	
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	<0.02	

codes: p - EPA priority pollutant
h - EPA hazardous waste
c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

401 NORTH 18th STREET
SACRAMENTO, CALIFORNIA 95814
(916) 444-9602

VOLATILES         ug/L           2Y         acrolein         ND           3V         acrylonitrile         ND           4V         benzene         ND           6V         carbon tetrachloride         ND           7V         chlorobenzene         ND           10V         1,2-dichloroethane         ND           11V         1,1,1-trichloroethane         ND           13V         1,1-dichloroethane         ND           15V         1,1,2-trichloroethane         ND           16V         chloroethane         ND           19V         2-chloroethylvinyl ether         ND           23V         chloroform         ND           29V         1,1-dichloroethylene         ND	
acrolein  3V acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  40  40  40  40  40  40  40  40  40  4	
acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  MO  29V 1,1-dichloroethylene	
acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  MO  100  100  100  100  100  100  100	
6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  100  11,1-dichloroethylene	
10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	-
13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene	
23V chloroethylvinyl ether 10 23V chloroform 10 29V 1,1-dichloroethylene 10	
23V chloroform 10 29V 1,1-dichloroethylene 10	
29V 1,1-dichloroethylene	
30v 1,2-trans-dichloroethylene	
32y 1,2-dichloropropane w	
33v 1,3-dichloropropylene	
38V ethylbenzene NO	
44V methylene chloride 100	•
45V methyl chloride NO	
46V methyl bromide no	
47V bromoform No	
48y dichlorobromomethane us	
49V trichlorofluoromethane w	
50V dichlorodifluoromethane 10	
51V chlorodibromomethane no	
85V tetrachloroethylene no	
86V toluene <u>no</u> * = Less t	
87V trichloroethylene	than 10 ug/L
88V vinyl chloride NO	

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8602

NT Engineering Science		CAL LAB NO. <u>14257-7</u> CLIENT I.D. Βω 17
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS ug/l
21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether 710
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether 710
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane
31A 2.4-dichlorophenol	nd	52B bexachlorobutadiene 72
34A 2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene 71/2
57A 2-nitrophenol	·nd	54B isophorone
58A 4-nitrophenol	nd	55B naphthalene
59A 2,4-dinitrophenol	nd	56B nitrobenzene 71/
60A 4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine 7/
64A pentachlorophenol	ind	62B N-nitrosodiphenylamine 720
65A phenol	Ind	638 N-nitrosodi-n-propylamine
		668 bis(2-ethylhexyl)phthalate 410
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate Mg
1B acenaphthene	ind	688 di-n-butyl phthalate
58 benzidine	nd	698 di-n-octyl phthalate
88 1,2,4-trichlorobenzene	nd	70B diethyl phthalate
98 hexach1orobenzene	rid	718 dimethyl phthalate
128 hexach1oroethene	nd	72B benzo(a)anthracene yn
188 bis(2-chloroethyl)ether	nd	738 benzo(a)pyrene My
20B 2-chloronophthelene	nd	748 3,4-benzofluoranthene
258 1,2-dichlorobenzene	and	75B benzo(k)fluoranthene ' 7
26B 1,3-dichlorobenzene	nd	768 chrysene
278 1,4-dichlorobenzene	nd	77B acenaphthylene 42
- 28B 3,3'-dichlorobenzidine	nd	788 anthracene
358 2,4-dimitrotolyene	nd	798 benzo(ghi)perylene
36B · 2 ,6-dinitrotoluene	nd	80B fluorene
- 37B 1,2-diphenylhydrazine		818 phenanthrene
(as azobenzene)	nd	828 dibenzo(a,h)anthracene
398 fluoranthene	-nd	83B indeno(1,2,3-cd)pyrene
408 4-chlorophenyl phenyl ether	nd	848 pyrene

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellan 4FB		ES ID <u>820130</u>
BW #17	Ali	iquot analyzed
Date Received 5 February 1932	Detector Used	i: Coulson, EC, Flame, PID
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
		40.08
Aroclor 1254		~ · · · · · · · · · · · · · · · · · · ·
Aroclor 1260 No id	dentificable Wroclor peaks  HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN	
ENGINEE		SORATORY
No identification of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN	SORATORY ES ID <u>820/30</u>
Aroclor 1260  No id  ENGINEER  But #17	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN	ES ID <u>820/30</u>
Aroclor 1260  No id  ENGINEER  But #17	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN	SORATORY ES ID <u>820/30</u>
Sample ID Mc Clellan AFB  BW #17  Date Received 5 February 1982	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN	ES ID <u>820/30</u>
Aroclor 1260  No id  ENGINEE  Sample ID Mc Clellan AFB	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN Als	ES ID <u>820/30</u> iquot analyzed d: Coulson, EC, Flame, PID
Aroclor 1260  No id  ENGINEE  Sample ID McClellan AFB  BW #17  Date Received 5 February 1982	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN Ali Detector Used Chemist	ES ID <u>820/30</u> iquot analyzed d: Coulson, EC, Flame, PID  Approved
ENGINEER  Sample ID McClellan AFB  BW #17  Date Received 5 February 1982  Date analyzed	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN Ali Detector Use Chemist Detection Limits (ppb)	ES ID <u>820/30</u> iquot analyzed d: Coulson, EC, Flame, PID  Approved  Found (ppb)
Sample ID McClellan AFB  BW #17  Date Received 5 February 1982	HERBICIDE REPORT RING-SCIENCE - BERKELEY LAN  Ali  Detector Use  Chemist  Detection Limits (ppb)  0.001	ES ID <u>820/30</u> iquot analyzed d: Coulson, EC, Flame, PID  Approved  Found (ppb)

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#### PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellan AFB		es id <u>820/30</u>
BW #17	Aliq	nuot analyzed
Date Received J February 198	2 Detector Used:	Coulson, EC, Plame, PID
Date analysed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.002	(0.002)
Beta BHC	0.004	L0.004
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DDT	0.016	_
Dieldrin	0.006	
Endosulfan I	0.005	0.27
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	0.04
Heptachlor epoxide	0.004	•
Methoxychlor	0.02	A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR
Toxephene	0.40	
No i.	dentifiable pesticide peaks	

64/23

4.00

1/11

Sample ID ///co	Clellon AFB			ES ID	820 130
BW# 17	<del></del>			Aliquot analyzed	
Date Received	5 February 1982			Method Used	
Date analyzed		Chemis	st	Approved	<del></del>
	<del></del>	Detection	n Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	< 0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,			-	
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50		<u>.</u>	
Chromium (+3)	p,h,c,d,o	20	1 7	ial < 0.05	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>&lt;0.05</b>	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesium		1			
Hanganese	d	10	0.5	<u> </u>	
Mercury -	p,h,c,d,o		0.5	<0.001	
Molybdenum	C	500	990	Marin Santa Calabata Calaba Santa Sa	
Nickel	p,c,o	40	1	<0.05	• • •
Potessium -		10	***		
Selenium	p,h,c,d		10	<b>&lt;0.01</b>	
Silicon		10			
<del></del>		<del> </del>		<del></del>	

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Detection Limit (ppb) Element Code Flame Flameless Detected L.						
Element	Code	Flame	Flameless	Detected	Limit	
Silver	p,h,c,d,o	50	1	<0.05		
Sodium		10				
Thellium	p,c,					
Tin						
Vanadium	c					
Zinc	p,c,d,o	5	0.05	40.02		

codes: p - EPA priority pollutant

- EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY-

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

CLICHT		Sainte Sainte	CALLAR	<u> </u>	14087 - 8
CLIENT		Engineening Science	CAL LAB	NO	19087
CLIENT	1.0	36,18	<del></del>		
e magazi e de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la compos		VOLATILES	ug/L		
	27	acrolein	<u>(U)</u>		
	3٧	acrylonitrile	دىم		
	4٧	benzene			
	6V_	carbon tetrachloride	מע		
	7٧	chlorobenzene	. 10		
	104	1,2-dichloroethane			
	117	1,1,1-trichloroethane	w		
	137	1,1-dichloroethane	NO		
	147	1,1,2-trichloroethane			
	157	1,1,2,2-tetrachloroethane	NO		
	167	chloroethane	M		
	197	2-chloroethylvinyl ether	10		
	23V	chloroform			
	297	1,1-dichloroethylene	N)		
	30Y	1,2-trans-dichloroethylene	N		
	327	1,2-dichloropropane	10		
	337	1,3-dichloropropylene	LS		
	38V	ethylbenzene	150		_
	444	methylene chloride	no		•
	45V	methyl chloride			
	46V	methyl bromide			
	47V	bromoform	10		•
	48V	dichlorobromomethane	n		
	497	trichlorofluoromethane			
	50 <b>Y</b>	dichlorodifluoromethane	ЛО		
	517	chlorodibromomethane			
	85V	tetrachloroethylene	NO		
	86V	toluene	10	* =	Less than 10 ug/L
	874	trichloroethylene	15 -	ND	- Not detected
	88V	vinyl chloride	ЛО		

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

INT Engineering Science	e.		CAL LAB NO. 14087	-8
Engineering Science	<u> </u>		CLIENT I.D. BW/	Ż
ACID COMPOUNDS	μ <b>g/</b> L	BAS	SE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A 2,4,6-trichlorophenol	and_	41B	4-bromophenyl phenyl ether	nd
22A p-chloro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	nd
24A 2-chlorophenol	nd	43B	bis(2-chloroethoxy)methane	914
31A 2,4-dichlorophenol	gid	52B	bexach1orobutadiene	716
34A 2,4-dimethylphenol	Ind	53B	hexachlorocyclopentadiene	rid
57A 2-ni trophenol	nd	54B	isophorone	710
58A 4-nitrophenol	Jud.	558	naphthalene	מיר
59A 2,4-dinitrophenol	nd	568	nitrobenzene	אות
,60A 4,6-dinitro-o-cresol	nd	618	N-nitrosodimethylamine	710
64A pentachlorophenol	nd	62B	N-ni trosodi phenylamine	710
65A pheno1	und	63B	N-ni trosodi-n-propylamine	סוד
		66B	bis(2-ethylhexyl)phthalate	W.
BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	Ma
18 acenaphthene	nd	688	di-n-butyl phthalate	na
58 benzidine	nd	`69B	di-n-octyl phthalate	7.1()
88 1,2,4-trichlorobenzene	pro	708	diethyl phthalate	710
98 hexachlorobenzene	nd	71B	dimethyl phthalate	71/
128 hexachloroethane	gnd	72B	benzo(a)anthracene	77
188 bis(2-chloroethyl)ether	ind	738	benzo(a)pyrene	77
20B 2-chloronaphthalene	nd	74B	3,4-benzofluoranthene	71
258 1,2-dichlorobenzene	nd_	<b>758</b>	benzo(k)fluoranthene	77
26B 1,3-dichlorobenzene	nd	768	chrysene	7
278 1,4-dichlorobenzene	nd	77B	acenaphthylene	7
288 3,3'-dichlorobenzidine	nd	788	anthracene	7
358 2,4-dialtrotolyene	nd	798	benzo(ghi)perylene	
368 · 2,6-dinitrotoluene	nd	80B	fluorene	9
378 1,2-diphenylhydrazine		818	phenanthrene	5
(as azobenzene)	<u>Ind</u>	828	dibenzo(a,h)anthracene	
398 flyoranthene	71d	838		_ ~
408 4-chlorophenyl phenyl ether	711	84B	pyrene	y

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellan AFB		ES ID <u>820/3/</u>
BW #18	Aliq	uot analyzed
Date Received 5 February PR	Detector Used:	Coulson, EC, Flame, PID
ate analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		_
roclor 1221		
roclor 1232		
roclor 1242		·
Aroclor 1248		
Aroclor 1254		< 0.08
Aroclor 1260	_	
a a management		
Sample ID Mc Clellan AFO		ES ID <u> </u>
BW#18		not analyzed
Date Received 5 February 1982	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist	ybbloseq
the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Detection Limits (ppb)	Found (ppb)
2,4,D	0.001	<0.001
2,4,5,7	0.001	0.003
2, 4, 5 - 79_(Silvex)	0.002	
DBCP (Dibromochioro propane)		
Maria de Alexandre	ntifiable herbicide peaks	
wa 10e	nerriepid narbicida baqks —	
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# PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Semple ID Mc Clellan AFB		es ID <u>820/3/</u>
BW#18	Aliqu	not analyzed
Date Received <u>&amp; February 19</u> 2	Detector Used:	Coulson, EC, Flame, PI
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Midrin	0.003	
Alpha BHC	0.002	40.002
Beta BHC	0.004	0.10
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DOE	0.006	
DOT	0.016	
Dieldrin	<i>⊈</i> .,906	·
Endosulfan I	0.005	<0.00 <b>5</b>
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	<0.002 .
<b>He thoxychlor</b>	0.02	
Toxaphene	0.40	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

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#### METALS REPORT FORM

Sample ID <u>Mcc</u> BW # 18			A	liquot analyzed	820131
Pate Received		יל		ethod Used	
ete analyzed		Chemist		Approved	
		· · · · · · · · · · · · · · · · · · ·			
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o	44	10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 stotal	40.05	
Chromium (+6)	C		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>&lt;0.05</b>	
Gold		100	1		
Iron	đ	100	l	• · ·	
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50	444		
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.001	
Molybdenum	c	500		<u>-</u>	

40

10

10

1

10

< 0.05

40.01

8/27/82

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Nickel

Potassium

Selenium

Silicon

p,c,o

p,h,c,d

2-162

Detection Limit (ppb)						
Element -	Code	Flame	Flameless	Detected	Limit	
Silver	p,h,c,d,o	50	1	40.05		
Sodium		10				
Thallium	p,c,					
Tin						
Vanadium	C					
Zinc	p,c,d,o	5	0.05	(0.02		

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

CLIENT		Engineering Science	CAL LAB	NO.	14087-9
CLIENT	1.0.	Βω 28	·		
		VOLATILES	ug/L		
•			-3L2-		
	27	acrolein	<u> </u>		
	34	acrylonitrile	NO ,		
	4٧	benzene			
	6V	carbon tetrachloride			
	<u>7V</u>	chlorobenzene			
	100	1,2-dichloroethane	4/2		
	117	1,1,1-trichloroethane	NO		
	137	1,1-dichloroethane	ND		
	147	1,1,2-trichloroethane	NO		
	157	1,1,2,2-tetrachloroethane			
	167	chloroethane	w		
	197	2-chloroethylvinyl ether	~~		
	237	chloroform	ND		
	297	1,1-dichloroethylene	w		•
	307	1,2-trans-dichloroethylene	AD		
	327	1,2-dichloropropane	NO		
	33V	1,3-dichloropropylene	ND		
	387	ethylbenzene	nv		
	447	methylene chloride	NO		-
	457	methyl chloride	10		
	467	methyl bromide	· NO		
	477	bromoform	· w		_
	487	dichlorobromomethane			•
	497		RO		
	50V	ر من المساول المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم 	NO		
	517		10		
	85V		10		
	86V		NO	* =	Less than 10 ug/l
	879		NO -	ND	
	884		no		

401 NORTH 16th STREET SAGRAMENTO, CALIFORNIA 95814 (816) 444-9602

## PRIORITY POLLUTANT DATA SHEET

ENT	Engineering .	Same		CAL LAB NO.	14077-9
	- Comment	DETETION	<del></del>	CLIENT I.D.	BW-28
	ACID COMPOUNDS	μ <b>g/L</b>	BAS	SE/NEUTRAL COMPOUNDS	ug/l
21A 2	.4.6-trichlorophenol	<u> nd</u>	41B	4-bromophenyl pheny	1 ether Mad
22A 0	-chloro-m-cresol	<u> 41d</u>	<b>428</b>	bis(2-chloroisoprop	yl)ether 700
24A 2	-chlorophenol	nd	438	bis(2-chloroethoxy)	methane 7%
31A 2	4-dichlorophenol	nd	52B	bexachlorobutadiene	70
34A 2	4-dimethylphenol		538	hexachlorocyclopent	adiene 510
57A 2	!-n1trophenol	nd	548	isophorone	710
58A 4	l-nitrophenol	nd	55B	naphthalene	71
59A 2	2,4-dinitrophenol	yıd	56B	nitrobenzene	no
60A	1,6-dinitro-o-cresol	Ind	618	N-nitrosodimethyla	rine 51
64A	pentachlorophenol	nd	628	N-ni trosodiphenylas	
65A	phenol	nd	63B	N-nitrosodi-n-prop	lamine 7
			66B	bis(2-ethylhexyl)pl	ithalate 5
	BASE/NEUTRAL COMPOL	MDS	67B	butyl benzyl phtha	late 91
18 a	cenephthene	and	688	di-n-butyl phthela	<b>te</b> 71
	enzidine	nd	698	di-n-octyl phthala	<b>7</b> 17
. ———	.2.4-trichlorobenzene	nd	70B	diethyl phthalate	JV.
	exach l probenzene	nd	<u>718</u>	dimethyl phthalate	<u> </u>
	exach lorge thane	nd	<u>728</u>	benzo(a)anthracene	ור
	is (2-chioroethy I )e the		<u>738</u>	benzo(a)pyrene	<u>~1</u>
	-chloronaphthaiene	nd	748	3,4-benzofluoranth	ene 7
	,2-dichlorobenzene	nd	758	benzo(k)fluoranthe	ne ' 71
	,3-dichlorobenzene	nd	76B	chrysene	ائر.
	,4-dichlorobenzene	nd	778	acenaphthylene	
288 3	,3'-dichlorobenzidine		788	anthracene	·
	.4-dinitrotoluene	nd	<u>798</u>	benzo(ghi)perylene	
	.6-dini trotoluene	nd	80B	fluorene	<u></u>
	,2-diphenylhydrazine		818	phenanthrene	<u> </u>
لــــــــــــــــــــــــــــــــــــــ	as azobenzene)	nd	82B	dibenzo(a,h)anthre	cene
398	Tuoranthene	nd	83B	indeno(1,2,3-cd)py	
408	-chlorophenyl phenyl	ether nd	848	pyrene	_

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#### AROCLOR (PCB) REPORT EMGIMEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mc Clellan AFB		ES ID <u>720/32</u>	
BW #28		uot analyzed	
Date Received <u>5 February 19</u> 82	Detector Used:	Coulson, EC, Plame, PID	
Date analysed	Chemist	ybbroneq	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260	-		
Sample ID McClellan AFB_	ing-science - Berkeley Labor	ES ID <u>820/32</u>	
BW #28	Aliq	uot analyzed	
Date Received 5 February 1982		Coulson, EC, Flame, PID	
Date analyzed	Chemist	Approved	
	Detection Limits (ppb)	Found (ppb)	
2. 4. D	0.001	0.008	•
2,4,5;T	0.001	0.002	
2,4,5 TP (Silvex)	0.002	-	
DBCP (Dibromochloro propane)			
***************************************			
No ider	ntifiable herbicide peaks	<del></del>	
64/23		0.130.103	
		9/30/82	. 9

#### PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Sample ID Mr. Clellan AFB		es id <u>&amp;20/32</u>
BW #28	Aliq	nuot analyzed
Date Received 5 February 1982	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0-04	
DDD (TDE)	0.012-	
DOS	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
<b>Heptachlor</b>	0.002	
Heptachlor epoxide	0.004	
Me thoxychlor	0.02	
Toxaphene	0.40	

64/23

1/11

Sample ID Mc				ES ID	820132
				Aliquot analyzed	<del></del>
Date Received					<del></del>
Date analyzed		Chemist		Approved	<del></del>
Element	Code	Detection I	imit (ppb) Flameless		Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.00 <b>5</b>	
Arsenic	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	< 0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1) to	tal <0.05	
Chromium (+6)	c		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	40.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesium		1	***		
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<i>&lt;0.001</i>	
Molybdenum	c	500		a seema a a a a a	
Nickel	p,c,o	40	1	<b>40.05</b>	
Potassium		10			
Selenium	p,h,c,d		10	< 0.01	
Silicon		10			

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8/27/82

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2-168

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	Z0.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	С				•
Zinc	p,c,d,o	5	0.05	0.048	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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8/27/82

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401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

CLIENT	E	rgincering Science	CAL LAB	NO. 140	87-10
LIENT		30 29			
		VOLATILES	ug/L		
	2 <b>V</b>	acrolein	NO		
	3٧	acrylonitrile	cs		
	4٧	benzene	NO		
	6V	carbon tetrachloride	NO		
	7٧	ch1orobenzene	NO.		-
	107	1,2-dichlaroethane			
	117	1,1,1-trichloroethane	NO		••
	137	1,1-dichloroethane	NO		
	14V	1,1,2-trichloroethane	NO		
•	157	1,1,2,2-tetrachloroethane	NO		,
,	167	chloroethane	RO		
,	197	2-chloroethylvinyl ether	NO		
	23V	chloraform	10		
	29V	1,1-dichloroethylene	NU_		
	30V	1,2-trans-dichloroethylene	no		
	32 <b>V</b>	1,2-dichloropropane	N		
	33V	1,3-dichloropropylene	no		
	387	ethyl benzene	NO		
	447	methylene chloride	10		•
	45V	methyl chloride	NO		
	467	methyl bromide	· NO		
	477	bromoform	, NO		
	487	dichlorobromomethane	RO		
	49V	trichlorofluoromethane	NO		
	50V_	dichlorodifluoromethane	ND		
	517	chlorodibromomethane	w		
	85V_	tetrachloroethylene	NO		
	86V_	toluene	ND	* = Less	than 10 ug/
	87V	trichloroethylene	M		detected
	887	vinyl chloride	no		

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

NT	Engineering S	cience		7-10
-		avn ce	CLIENT I.D. BW	27.
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	, µg/l
21A 2	.4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	r and
22A p	-chloro-m-cresol	- 5rd	428 bis(2-chloroisopropy1)eth	er ma
24A 2	-chlorophenol	71d	43B bis(2-chloroethoxy)methan	ואר 🔻
31A 2	.4-dichlorophenol	'nd	52B bexachlorobutadiene	71/
34A 2	4-dimethylphenol	nd	538 hexachlorocyclopentadiene	אל
57A 2	!-nitrophenol	nd	54B isophorone	ית'
58A 4	I-nitrophenol	nd	55B naphthalene	77
59A 2	2,4-dinitrophenol	nd	56B nitrobenzene	אַר
60A	4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	71
64A	pentachlorophenol	nd	62B N-nitrosodiphenylamine	<u> </u>
65A	phenol	nd	63B . N-nitrosodi-n-propylamine	71
			668 bis(2-ethylhexyl)phthalat	
	BASE/NEUTRAL COMPOUN	<u>os</u>	678 butyl benzyl phthalate	$\gamma$
18 ac	cenaphthene	$\gamma$ nd	68B di-n-butyl phthalate	<u>~~</u>
	enzidine	nd	698 di-n-octyl phthalate	<u> </u>
88 1	,2,4-trichlorobenzene	nd	708 diethyl phthalate	<u></u>
98 h	exach l orobenzene	nd	718 dimethyl phthalate	<u> </u>
128 h	exach lorgethane	nd	728 benzo(a)anthracene	
	is (2-chloroethy) ether	nd	738 benzo(a)pyrene	`7
208 2	-chloronaghthaiene	nd	748 3,4-benzofluoranthene	
	,2-dichlorobenzene	71d	758 benzo(k)fluoranthene '	
268 1	,3-dichlorobenzene	nd	768 chrysene	<u> </u>
278 1	,4-dichlorobenzene	nd	778 acenaphthylene	
288 3	,3'-dichlorobenzidine	. nd	788 anthracene	
358 2	.4-dinitrotoluene	nd	798 benzo(ghi)perylene	
36B · 2	,6-dinitrotoluene	na	80B fluarene	
378 1	,2-diphenylhydrazine		818 phenanthrene	
	(as azobenzene)	<u>nd</u>	828 dibenzo(a,h)anthracene	·······
398	fluoranthene	<u>nd</u>	838 indeno(1,2,3-cd)pyrene	_
40B 4	4-chlorophenyl phenyl e	ther no	848 pyrene	

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

IENT	Enginerainy Sci	ence	CAL LAB NO. 140.5.7-	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A_2	,4,6-trichlorophenol	end	418 4-bromophenyl phenyl ether	إبارت
	-chioro-a-cresol	Sud	42B bis(2-chloroisopropyl)ether	713
	-chlarophenol	hid	43B bis(2-chloroethoxy)methane	nd
	.4-dichlorophenol	Gid	52B bexachlorobutadiene	Grd
	.4-dimethylphenol	yid	538 hexachlorocyclopentadiene	710
	-nitrophenol	:nd	548 isophorone	Sad
	-nitrophenol	nd	558 naph tha lene	m
. 59A	4-dinitrophenol	Ind	56B nitrobenzene	md
	1,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	Ind
64A	pentach lorophenol	nd	62B N-nitrosodiphenylamine	フ・ハ
65A	pheno)	nd	63B .N-nitrosodi-n-propylamine	700
			668 bis(2-ethylhexyl)phthalate	מור
	BASE/NEUTRAL COMPOUNDS	•	67B butyl benzyl phthalate	W
78_ a	conaphthene	nd	688 di-n-butyl phthalate	מיר
	enzidine	nd	69B di-n-octyl phthalate	770
	.2.4-trichlorobenzene	nd	708 diethyl phthalate	710
	exach i orobenzene	nd	718 dimethyl phthalate	70
	exach lorge thene	nd	72B benzo(a)anthracene	710
	1s(2-chloroethyl)ether	nd	738 benzo(a)pyrene	700
	-chloronaphthalene	nd	74B 3,4-benzofluoranthene	71
	,2-dichlorobenzene	nd	758 benzo(k)fluoranthene	711
	,3-dichlorobenzene	nd	768 chrysene	لانہ
	,4-dichlorobenzene	nd	77B acenaphthylene	71
	,3'-dichlorobenzidine	· Ind	78B anthracene	<u> </u>
	4-dinitrataluene	Ind	798 benzo(gh1)perylene	
	,6-dinitrotoluene	nd	80B fluorene	····
	-2-diphenylhydrazine		81B phenanthrene	71
	as azobenzene)	<u> </u>	828 dibenzo(a,h)anthracene	٠ <u>٠</u> ٠٠
.39B	fluoranthene	710	83B indeno(1,2,3-cd)pyrene	
408	4-chlarophenyl phenyl ethe	er ynd	848 pyrene	5

#### AROCLOR (PCB) REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

ame, PID
ppb)
ppb)
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n/+ >
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ame, PID
ppb)
Pho /
<u> </u>

9/30/82

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## PESTICIDE REPORT ENGINEERING-SCIENCE - BERKELEY LABORATORY

Semple ID McCkillan AFB	es id <u>82983</u>				
Bu) #29	Aliquot analyzed				
Date Received <u>5 February F</u>	Detector Used:	Coulson, EC, Flame, PID			
Date analyzed	Chemist	Approved			
_	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	0.002	·			
Beta BHC	0-004				
Delta BHC	0.004				
Gamma BHC (lindane)	0.002	-			
Chlordane	0.04				
DDD (TDE)	0.012	-			
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Indosulfan I	0.005				
Endosulfan II	0.01				
Endosulfan sulfate	0.03	·			
Podrin	0.009				
Heptachlor	0.002				
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	0.40				

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Sample ID McCle/lon AFB	ES ID <u>&amp;20133</u>	
BW #29	Aliquot analyzed	
Date Received 5 February MAN	Method Used	
Date analyzed	Chemist Approved	

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		ese ess
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	LO.05	
Berium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1) tota	1 40.05	
Chromium (+6)	c		40)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	L0.05	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50	***		<del></del>
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.001	<del></del>
Molybdenum	С	500			
Nickel	p,c,o	40	1	L0.05	<del></del>
Potassium		10			
Selenium	p,h,c,d		10	40.01	
Silicon		10			

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8/27/82

Element	Code	Detection Flame	rlameless	Detected	Limit
Silver	p,h,c,d,o	50	. 1	20.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	40.021	,

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

APPENDIX K

ANALYTICAL DATA BASE MONITORING WELLS

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95614 (916) 444-9602

CLIENT		Engineering Science	CAL LAB NO/4428 -
CLIENT	I.D.	Well MW 4	
		VOLATILES	ug/L
	27	acrolein	
	37	acrylonitrile	<u> </u>
	4٧	benzene	
	_6V	carbon tetrachloride	
	7٧	chlorobenzene	<u> </u>
	100	1,2-dichloroethane	~
	117	1,1,1-trichloroethane	ND .
	137	1,1-dichloroethane	
	144	1,1,2-trichloroethane	~D
	150	1,1,2,2-tetrachloroethane	
	167	chloroethane	
	198	2-chloroethylvinyl ether	
	237	chloroform	
	297	1,1-dichloroethylene	<i>N</i> D
	3QV	1,2-trans-dichloroethylene	
	327	1,2-dichloropropane	
	337	1,3-dichloropropylene	
	38V	ethy1benzene	
	447	methylene chloride	
	45V	methyl chloride	un
	46V	methyl bromide	M)
	47V	bromoform	<u> </u>
	487	dichlorobromomethane	
	497	trichlorofluoromethane	~0
	507	dichlorodifluoromethane	M)
	517	chlorodibromomethane	~~~
	85V		wp
	86V	فيسان والموالية البائدات ويواوي وأمير والوائد الأسان المون والوائد والمارد	* = Less than 10 ug/
	879		ND = Not detected
	889		NO

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

PRIORITY	POLLUTANT	DATA SHEET A	
CLIENT <u>Engineering</u> Science		CAL LAB NO. 14428=	# I
	<del></del>	CLIENT I.D. Well #4	
ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	<u> </u>	42B bis(2-chloroisopropyl)ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	WD	528 bexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	548 isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND.
60A 4,6-dinitro-o-cresol	KN	61B N-nitrosodimethylamine	
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A pheno1	ND	63B N-nitrosodi-n-propylamine	ND
)		668 bis(2-ethylhexyl)phthalate	15
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
1B acenaphthene	ND	68B di-n-butyl phthalate	ND
5B benzidine	ND	698 di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	708 diethyl phthalate	ND
98 hexachlorobenzene	ND	71B dimethyl phthalate	ND
12B hexachloroethane	ND	72B benzo(a)anthracene	ND
188 bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
208 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
258 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	ND
268 1,3-dichlorobenzene	ND	76B chrysene	ND
27B 1,4-dichlorobenzene	ND	778 acenaphthylene	ND
28B 3,3'-dichlorobenzidine	ND	788 anthracene	ND
35B 2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	$\mathcal{N}$
36B 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1,2-diphenyihydrazine		818 phenanthrene	ND
(as azobenzene)	N)	82B dibenzo(a,h)anthracene	ND
39B fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
40B 4-chlorophenyl phenyl ether	-MD	84B pyrene	ND

#### PESTICIDE/HERBICIDE REPORT FORM

	Aligu	ot analyzed	
Date Received 4/24-82		Coulson, EC, Flame, PID	
Date analyzed	Chemist <u>UB</u>	Approved	
	Detection Limits (ppb)		· ·
Aldrin	c. c.c.3		•
Alpha BHC	0.002		•
Seta BHC	0.004	er en en en en en en en en en en en en en	. •••
Delta BHC	0.004		
Samma BHC (lindane)	0.002	276	·
Thlordane	0.04		•
DDD (TDE)	C.012		,
DDE	0.006		•
DDT	c 016	•	
Dieldrin	C.076		
Indosulfan I	0.005		•
Endosulfan II	0.01		
Endosulfan sulfate	0.03		
Endrin	0.009		
Meptachlor	c.ccz		
Meptachlor epoxide	0.004		
Methoxychlor	0.62		
loxaphene	C.4c.		
2,4,D	0.001	C.377	i i i i i i i i i i i i i i i i i i i
2, 4, 5, T	0001		المراجعين والمراجعة فيستعطف المعتب
2,4,5 TP (Silvex)	0.002	0.06	
DBCP (Dibromochloro propane)	0.002		
<del></del>	L	<del></del>	

Chemist

Sample ID McClellon AFB

MW #4

Date Received 29 April 1992

Date analyzed

Aliquot analyzed

Method Used

Approved

Detection Limit (ppb) Code Flame Flameless Element Detected Limit 500 Aluminum 50 Antimony 500 10 P.C 0.016 Arsenic p,h,c,d,o 10 <0.05 5 Barium 1,000 h.c.d Beryllium p,c, 5 Cadmium p,h,c,d,o 0.1 0.014 Calcium 50 1) total 0.08 Chromium (+3) p,h,c,d,o 20 Chromium (+6) Cobalt 50 20 1 Copper p,c,d,o 40.05 Gold 100 Iron 100 1 Lead 100 10 p,h,c,d,o <0.01 Lithium 50 Magnesium d 10 0.5 Manganese Mercury p,h,c,d,o 0.5 0.0007 Molybdenum 500 Nickel 40 1 p,c,0 Potassium 10 Selenium p,h,c,d 10 0.016 Silicon 10

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4

8/27/82

Element	Code	Detection Flame	r Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<0.05	
Sodium		10			
Thallium	p,c,				- "
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.10	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

ngineering-science -	BERKELEY	LABORATORY
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# 3/31 Aanplu California Analytical Laboratories, Inc.

#### 401 NORTH 16th STREET CRAMENTO, CALIFORNIA 95814

CLIENT		Engineering Science	CAL LAB	NO. 14428-2
CLIENT	I.D.	Well MI 6	/ we we -	
anaman (Maria anaman		VOLATILES	ug/L	
	_2 <b>V</b>	acrolein	NO	•
	3٧	acrylonitrile	ND	
	4٧	benzene	A/D	
	6V	carbon tetrachloride	NP	
	77	chlorobenzene	ND	
	100	1,2-dichloroethane	ND	
•	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	NO	
	144	1,1,2-trichloroethane	ND	
	157	1,1,2,2-tetrachloroethane	ND	
	167	chloroethane	NO	
	197	2-chloroethylvinyl ether	ND	
	23V	chloroform	ND	
	29V	l,l-dichloroethylene	μD	
	30V	1,2-trans-dichloroethylene	ND	
	32V	1,2-dichloropropane	ND	
	33V	1,3-dichloropropylene	NO	
	38V	ethylbenzene	NO.	
	444	methylene chloride	ND.	
	45V	methyl chloride		
	46V	methyl bromide		
	47٧	bromoform	~0	
	487	dichlorobromomethane	<i>N</i> 2	•
	497	trichlorofluoromethane		
	50V	dichlorodifluoromethane	NO	
	517	chlorodibromomethane	NO	
	85V	tetrachloroethylene	-M	
	867	toluene	~2D	* = Less than 10 ug/L
	877	trichloroethylene	24	ND = Not detected
	887	vinyl chloride		

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

	PRIOR	RITY POLLUTANT	ATA S	HEET jat	
CLIENT	Enaineering Science	<del></del>		CAL LAB NO. 14428	
	and a second	<del></del>		CLIENT I.D. Well #	<u></u>
	ACID COMPOUNDS	ug/L	BA	SE/NEUTRAL COMPOUNDS	μg/L
21A	2,4,6-trichlorophenol	ND	418	4-bromophenyl phenyl ether	ND
22A	p-chloro-m-cresol	ND	42B	bis(2-chloroisopropyl)ether	ND
24A	2-chlorophenol	ND	438	bis(2-chloroethoxy)methane	ND
31A	2,4-dichlorophenol	ND	52B	bexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	53B	hexachlorocyclopentadiene	ND
57A	2-nitrophenol	ND	548	isophorone	ND
58A	4-nitrophenol	ND	55B	naphthalene	ND
59A	2,4-dinitrophenol	ND	56B	ni trobenzene	ND
60A	4,6-dinitra-o-cresol	ND	61B	N-nitrosodimethylamine	ND
64A	pentach lorophenol	ND	62B	N-ni trosodi pheny lami ne	ND
65A	phenol	ND	638	N-nitrosodi-n-propylamine	ND
•			66B	bis(2-ethylhexyl)phthalate	16
	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	ND
1B a	cenaphthene	ND	688	di-n-butyl phthalate	ND
	enzidine	ND	69B	di-n-octyl phthalate	_W
	,2,4-trichlorobenzene	ND	70B	diethyl phthalate	ND
	nexach1orobenzene	ND	<u>718</u>	dimethyl phthalate	ND
	nexach1oroethane	ND	72B	benzo(a)anthracene	ND
	ois(2-chloroethyl)ether	ND	73B	benzo(a)pyrene	ND
	2-chloronaphthalene	ND	<b>74B</b>	3,4-benzofluoranthene	ND
	1,2-dichlorobenzene	ND	758	benzo(k)fluoranthene	ND
	1,3-dichiorobenzene	ND	76B	chrysene	ND
	1,4-dichlorobenzene	N	77B	acenaphthylene	ND
	3,3'-dichlorobenzidine	ND	788	anthracene	N
	2,4-dinitrotoluene	ND	<u>798</u>	benzo(ghi)perylene	ND
	2,6-dinitrotoluene	ND	80B	fluorene	ND
	1,2-diphenylhydrazine		81B	phenanthrene	ND
	(as azobenzene)	ND	828	dibenzo(a,h)anthracene	ND
398	fluoranthene	N	83B	indeno(1,2,3-c <del>d)pyrene</del>	CN
40B	4-chlorophenyl phenyl ether	ND	84B	pyrene	COL

#### PESTICIDE/HERBICIDE REPORT FORM

	Aliqu	ot analyzed   L	
Date Received 4/1-82	Detector Used:	Coulson, EC, Flame, PID	
Date analyzed	Chemist <u>UB</u>	Approved	
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Detection Limits (ppb)	Found (ppb)	
ldrin			
lipha BHC		N= .	
eta BHC			
Delta BHC			
Samma BHC (lindane)		•	•
Thlordane	1	-	
DDD (TDE)			
DDE			
DDT		er er en en en en en en en en en en en en en	
Dieldrin			•
Indosulfan I			
andosulfan II			
Endosulfan sulfate			
2ndrin			
Septachlor	0.002	0.7C	
Reptachlor epoxide			
tethoxychlor			
fethoxychlor Toxaphene			
	0.001	- C-02	
l'oxaphene	0.001	0.02	
Toxaphene 2,4,D	0.001	0.006	

with the

Element	Code	Detection Limit (ppb)	Detected	7 feed to	
Date analyzed		Chemist	Approved		
Date Received	1 April 1982				
mw#6			Aliquot analyzed		
Sample ID McC	Vellan AFB		ES ID	823443	
,					

<u></u>		Detection Limit (ppb)			
Element	Code	Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	40.005	
Arsenic	p,h,c,d,o	~~~	10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>&lt;0.01</b>	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1) total	<b>40.05</b>	
Chromium (+6)	C	-	10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.05	·····
Gold		100	1		
Iron	d	100	1		
Lesd	p,h,c,d,o	100	10	0.109	<del></del>
Lithium		50			
Magnesium		1			
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0005	
Molybdenum	c	500	-	<u>.</u> <u>.</u>	
Nickel	p,c,o	40	1	0.06	
Potassium		10			
Selenium	p,h,c,d		10	<b>40.01</b>	
Silicon		10			

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Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<0.05	<del></del>
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.028	

p - EPA priority pollutant

- EPA hazardous waste

Ca. Dept. Health Services hazardous waste EPA drinking water Ocean waters of California

8/27/82

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

CLIENT		Engineering Science	CAL LAI	B NO.	1436	5-1	
CLIENT	1.0.	Wellmit: McCkllan AFB	<del></del>	- 		والمجهورة المتحددة المام	
		VOLATILES	ug/L	. •			
	27	acrolein	۵'۵				
•	3,7	acrylonitrile	ND.	•			
,	4٧	benzene	_ LD	•			
, ,	67	carbon tetrachloride	_NO	-			
·	7V	chlorobenzene	دير	-		~	
	100	1,2-dichloroethane	NS				
,	117	1,1,1-trichloroethane	νο	-			
•	137	1,1-dichloroethane	NO	•			
•	147	1,1,2-trichloroethane	ND	-			
•	15V	1,1,2,2-tetrachloroethane	G <u></u>	-			
'	167	chloroethane		•			
•	197	2-chloroethylvinyl ether	んり	•			
	23V	chloroform	(1/2)	•			
•	294	l,l-dichloroethylene	NÜ				
•	30V	1,2-trans-dichloroethylene	20	•			
•	32V	1,2-dichloropropane	ND	•			
•	337	1,3-dichloropropylene	ND	•			
•	38V	ethy l benzene	NO_	-			
•	447	methylene chloride	NO	-			
•	45V	methyl chloride	ב'מ	•			
•	46V	methyl bromide	در لا	•			
•	47V	bromoform	N'S	•			
•	487	dichlorobromomethane	ولار	-			
•	497	trichlorofluoromethane	<i>(:3</i>	•			
•	50V	dichlorodifluoromethane	NO	•			
	51V	chlorodibromomethane	んじ	•			
•	85V	tetrachloroethylene	وند	-			
,	86V	toluene	رند	* =	late +	han 10	ua /1
,	87V	trichloroethylene	30	ND .	Not d	etected	44/ r
	887	vinyl chloride	دير	-			
		1.1.2-trichlon-2.2.1-trifluoroethane		•		-	

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

LIENT <u>Engineering</u> Science	<del></del>	CAL LAB NO	
ACID COMPOUNDS		CLIENT I.D. <u>んと// ボジチ 、ル</u> BASE/NEUTRAL COMPOUNDS us	<u>- C/e</u> 3/L
ACTO COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	<i>}/</i> L
21A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ديم
22A p-chloro-m-cresol	<u> </u>	42B bis(2-chloroisopropyl)ether	رم
24A 2-chlorophenol	دیم	43B bis(2-chloroethoxy)methane	مم
31A 2,4-dichlorophenol	ريد_	528 bexachlorobutadiene	<u>~2</u>
34A 2,4-dimethylphenol	10	53B hexachlorocyclopentadiene	NO
57A 2-nitrophenol	_ WD_	548 isophorone	NO
58A 4-nitrophenol	<u> </u>	55B naphthalene	ربه_
59A 2,4-dinitrophenol	NO	568 nitrobenzene	n o
60A 4,6-dinitro-o-cresol	<u> </u>	61B N-nitrosodimethylamine	يدم
64A pentachlorophenol	10)	628 N-nitrosodiphenylamine	ربر
65A phenol	NO	63B N-nitrosodi-n-propylamine	<i>L</i> .)
		66B bis(2-ethylhexyl)phthalate	1.2
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	10
18 acenaphthene	A.'D	688 di-n-butyl phthalate	رر
5B benzidine		69B di-n-octyl phthalate	زند
8B 1,2,4-trichlorobenzene		70B diethyl phthalate	1.0
9B hexachlorobenzene	NO	718 dimethyl phthalate	us
128 hexachloroethane		72B benzo(a)anthracene	دند
188 bis(2-chloroethyl)ether		738 benzo(a)pyrene	_دنيه
208 2-chloronaphthalene	<u> </u>	748 3,4-benzofluoranthene	כמ
258 1,2-dichlorobenzene		758 benzo(k)fluoranthene	ri)
26B 1,3-dichlorobenzene		768 chrysene	ais
278 1,4-dichlorobenzene	NO.	77B acenaphthylene	n)
288 3,3'-dichlorobenzene		788 anthracene	N)
35B 2,4-dinitrotoluene			NO
36B 2,5-dinitrotoluene	<u>~~</u>		ιδ
37B 1,2-diphenylhydrazine	<u> </u>	440 A	(; <i>j</i> )
(as azobenzene)		the department of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of	v0
398 fluoranthene	A'D	83B indeno(1,2,3-cd)pyrene	
40B 4-chlorophenyl phenyl ether	شد	848 pyrene	

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

		PRIORITY POLLUTANI DATA	QUEE!	
CLIENT	I.D.	Engineering Science	CAL LAE	3 NO. 14428 - 3
		VOLATILES	ug/L	
	27	acrolein	ND	
	37	acrylonitrile	ND	
	4٧	benzene	AUD	•
	6V	carbon tetrachloride	ND	
	74	chlorobenzene	. VD	
	100	1,2-dichloroethane	AD.	An imposition in the contraction of
	117	1,1,1-trichloroethane	ND	
•	13V	1,1-dichloroethane	NO	t en en en en en en en en en en en en en
	144	1,1,2-trichloroethane	140	a company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and the company and
	150	1,1,2,2-tetrachloroethane		The state of the state of the
	164	chloroethane	NO	•
	197	2-chloroethylvinyl ether	N	
	237	chloroform	:40	•
	29V	1,1-dichloroethylene	NO	· ····································
	30V	1,2-trans-dichloroethylene	26	
	327	1,2-dichloropropane	NO	
	337	1,3-dichloropropylene	ND	The Thomas I are the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
	38V	ethy l benzene	AAD	•
	447	methylene chloride	4/0	Processing and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t
	45V	methyl chloride		errorromanico mentra per el existe de la mani-
	46V	methyl bromide	NO	
	477	bromoform	MD	The street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of th
	487	dichlorobromomethane	<i>M</i> )	Service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servic
	497	trichlorofluoromethane	مه	Terms of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control
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	-85V	tetrachloroethylene	7/0	Burner de la compansión de desentación de la porte de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la participa de la parti
	86V	toluene	10	- <del> Less</del> than 10 ug/L
	877	trichloroethylene	29	ND = Not detected
	-88V	vinyl chloride	N	•
				•

# 3/31 pan flu California Analytical Laboratories, Inc.

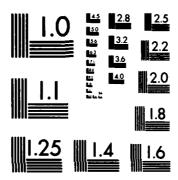
401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

PRIORI	TY POLLUTANT	DATA SHEET JOH	
CLIENT <u>Engineering</u> Science	·	CAL LAB NO. 144-28	?-3
<del>- y</del>	<del></del>	CLIENT I.D. Well #7	
ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
24A 2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	N)	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND.	638 .N-nitrosodi-n-propylamine	ND
	_	66B bis(2-ethylhexyl)phthalate	13
BASE/NEUTRAL COMPOUNDS	•	678 butyl benzyl phthalate	ND
1B acenaphthene	ND_	688 di-n-butyl phthalate	ND
58 benzidine	ND	698 di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	708 diethyl phthalate	ND
98 hexachlorobenzene	ND	718 dimethyl phthalate	ND
12B hexachloroethane	ND	72B benzo(a)anthracene	ND
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
208 2-chloronaphthalene	ND	748 3,4-benzofluoranthene	ND
258 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	ND
268 1,3-dichlorobenzene	ND	76B chrysene	ND
278 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
28B 3,3'-dichlorobenzidine	ND	788 anthracene	ND
358 2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	ND
36B 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1,2-diphenylhydrazine	_	818 phenanthrene	ND
(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ND
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
408 4-chlorophenyl phenyl ether	ND	848 pyrene	ND

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well #7 pre		ES ID <u>&amp;2.0441</u>
		quot analyzed 18.
Date Received 4/1-82	Detector Used	: Coulson EC, Flame, PID
Date analyzed	Chemist <u>LIB</u>	Approved
	Detection Limits	Found (ppb)
Aldrin	0.003	C.26
Alpha BHC		
Beta BHC		~ -
Delta BHC		
Gamma BHC (lindane)		
Chlordane	·	
ODD (TDE)		
DDE		
DOT		
Dieldrin	1	
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Heptachlor	•	
Heptachlor epoxide		
Methoxychlor		
Toxaphene		
2,4,D		
2,4,5;T		
2,4,5 TP (Silvex)		
DBCP (Dibromochloro propane)		
ENGINEERI	ng-science - Berkeley Lab	DRATORY

AD-8133 006 INSTALLATION RESTORATION PROGRAM PHASE II CONFIRMATION MCCLELLAN AFB CALIFORNIA VOLUME 2(U) ENGINEERING-SCIENCE INC ARCADIA CALIF JUN 83 3/8 JUN 83 F/G 13/2 UNCLASSIFIED F33615-80-D-4001 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well #7 post	·	ES ID _ 820442
	Aliqu	ot analyzed 16
Date Received 4/1-82	Detector Used:	
Date analyzed	Chemist MB	Approved
	Detection Limits	Found (ppb)
Aldrin	C.603	1.03
Alpha BHC		
Beta BHC		
Delta BHC		
Gamma BHC (lindane)		
Chlordane	!	
DOD (TDE)		
DDE		
DDT	:	
Dieldrin	!	
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Heptachlor	0.002	0.88
Heptachlor epoxide		·
Methoxychlor		
Toxaphene		
2,4,D	0.201	0.02
2,4,5,T		
2,4,5 TP (Silvex)		
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

3/17

Sample ID McClellan AFB		es ID <u>\$20441</u>	
MW#7 (pre)		Aliquot analyzed	
Date Received 1 April 1982		Method Used	
Date analyzed	Chemist	Approved	

Element	Code	Detection	n Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50	450		
Chromium (+3)	p,h,c,d,o	20	1) total	0-21	
Chromium (+6)	С		<u> 10)</u>	~	
Cobalt		50	1		
Copper	p,c,d,o	20	1	40.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	0.081	
Lithium		50			
Magnesium		1		manufacture on the	
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0005	
Molybdenum	c	500			
Nickel	p,c,o	40	1	0.10	
Potassium		10			
Selenium	p,h,c,d	<del></del>	10	<b>40.01</b>	
Silicon		10			<del></del>

64/18

8/27/82

Detection Limit (ppb)					
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	(0.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.21	

codes: p - EPA priority pollutant

- EPA hazardous waste - Ca. Dept. Health Services hazardous waste

- EPA drinking water

- Ocean waters of California

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64/18

8/27/82

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#### METALS REPORT FORM

Sample ID //c C/s//an

MD#7 (post)

Date Received //pri/ 1922

Date analyzed

ES ID <u>22044:</u>
Aliquot analyzed
Method Used

Chemist _____ App

Approved ____

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		-
Antimony	p,c	500	10	40.005	
Arsenic	p,h,c,d,o		10	40.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1)	1 0.09	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.05	
Gold		100	1		
Iron	ď	100	1		
Lead	p,h,c,d,o	100	10	0.023	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0005	
Molybdenum	c	500	<del></del>		
Nickel	p,c,o	40	1	0.05	
Potassium		10			
Selenium	p,h,c,d	<del></del>	10	<b>40.01</b>	
Silicon		10			

64/18

8/27/82

2-196

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected -	Limit.	
Silver	p,h,c,d,o	50	1	<0.05		
Sodium		. 10	•			
Thallium	p,c,					
Tin			·			
Vanadium	c					
Zinc	p,c,d,o	5	0.05	0.15		
h - E	PA priority po PA hazardous w a. Dept. Healt	aste	azardous waste		tonica i descriptivo	
d - E	PA drinking wa cean waters of	ter		American a service service services of	inings of the administration of the second	
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				And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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# California Analytical Laboratories, Inc.

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95614 (916) 444-9602

CLIENT		Engineering Science	CAL LAB	NO. 14428-4
CLIENT	I.D	Well MW8		-
***** · · · · · · · · · · · · · · · · ·		VOLATILES	ug/L	en sant en en e <mark>-en som</mark> er en en en en
	_2 <b>V</b>	acrolein	<b>G</b> U	
	3٧	acrylonitrile	ND	
	4٧	benzene	*	
	6V	carbon tetrachloride	ND	
	7٧	chlorobenzene	ND	
	100	1,2-dichloroethane	ND	
	117	1,1,1-trichloroethane	NA NA	
	137	1,1-dichloroethane	NO	
	147	1,1,2-trichloroethane		
	157	1,1,2,2-tetrachloroethane	ND ND	
·	167	chloroethane		
	197	2-chloroethylvinyl ether	ND	
•	234	chloroform	*	
	297	1,1-dichloroethylene	ND	
	30 <b>V</b>	1,2-trans-dichloroethylene	*	
	32 <b>Y</b>	1,2-dichloropropane	N	,
	_33V	1,3-dichloropropylene	~^^	
•	38V	ethy l benzene	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	444	methylene chloride	NO	
	45V	methyl chloride	ND.	
	46V	methyl bromide		
	47V	bromoform	<i>N</i> D	
	487	dichlorobromomethane	N	•
	49V	trichlorofluoromethane	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	50 <b>Y</b>	dichlorodifluoromethane	NO	•
	517	chlorodibromomethane	~D	
	85V	tetrachloroethylene	NO	
	864	toluene	NU	* = Less than 10 ug/L
	87Y	trichloroethylene	61	ND = Not detected
	887	vinyl chloride	ND	

SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

	PRIORIT	TY POLLUTANT	DATA SHEET
CLIEN	IT Engineering Science	ン	CAL LAB NO. 14428-4
			CLIENT I.D. Well#8
	ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS ,MW µg/L
3	21A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether ND
3	22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether ND
-	24A 2-chlorophenol	ND	438 bis(2-chloroethoxy)methane ND
	31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene ND
3	34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene ND
	57A 2-nitrophenol	ND	548 isophorone ND
	58A 4-nitrophenol	ND	558 naphthalene ND
!	59A 2,4-dinitrophenol	ND	568 nitrobenzene ND
•	60A 4,6-dinitro-o-cresol	ND	61B M-nitrosodimethylamine ND
٠. ٠	64A pentachlorophenol	ND	62B N-nitrosodiphenylamine N/D
	65A phenol	* 4	63B N-nitrosodi-n-propytamine ND
•			66B bis(2-ethylhexyl)phthalate 100
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate
	18 acenaphthene	ND	688 di-n-butyl phthalate ND
•	58 benzidine	ND	698 di-n-octyl phthalate ND
• •	8B 1,2,4-trichlorobenzene	ND	708 diethyl phthalate ND
•	98 hexachlorobenzene	ND	71B dimethyl phthalate ND
•	12B hexachloroethane	ND	72B benzo(a)anthracene ND
			738 benzo(a)pyrene MD
	188 bis(2-chloroethyl)ether 208 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene ND
•	258 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene ND
	268 1,3-dichlorobenzene	ND	76B chrysene ND
•	278 1,4-dichlorobenzene	ND	77B acenaphthylene ND
	288 3,3'-dichlarobenzidine	ND	788 anthracene ND
			798 benzo(ghi)perylene ND
	358 2,4-dinitrotoluene 368 2,6-dinitrotoluene	ND ND	808 fluorene ND
	37B 1,2-diphenylhydrazine	ND_	818 phenanthrene ND
· · -	(as azobenzene)	ND	82B dibenzo(a,h)anthracene
	398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene ND
	408 4-chlorophenyl phenyl ether	ND	848 pyrene

#### PESTICIDE/HERBICIDE REPORT FORM

,		not analyzed	
Date Received 4/1-82	Detector Used:	Coulson, EC, Flame, PID	
Date analyzed	Chemist <u>MB</u>	Approved	
	Detection Limits	Found (ppb)	
Aldrin			
Alpha BHC			
Seta BRC			
Delta BHC			
Gamma BHC (lindane)	0.002-	C.005	
Chlordane	!		
DOD (TDE)	1		
DOE			
DOT			***
Dieldrin			
Endosulfan I			
Endosulfan II			
Endosulfan sulfate			
Endrin			
Hep tachlor		0.04	
Heptachlor epoxide	0.002	U.C.+	
Methoxychlor	·	<u> </u>	
Toxaphene		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
			· · · · · ·
2,4,D			
2,4,5,1	0.001	0.008	THE CHARGE IN THE SECOND LINE
2,4,5 TP (Silvex)			er er <del>temme der mer er ing g</del>
DBCP (Dibromochloro propane)			
ENGINEERIN	G-SCIENCE - BERKELEY LABOR	MTORY	سوسد بعدد الدمساندان
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			

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Sample ID ///20	12/10x 1FB			ES ID	320443
mu) #3			A	liquot analyzed	
Date Received	1 April 1972		M	ethod Used	
Date analyzed		Chemi	st	Approved	
	<del></del>				
Element	Code	Detection Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.006	
Arsenic	p,h,c,d,o		10	<b>40.05</b>	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	0.013	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 tota	1 2.93	
Chromium (+6)	C		70)	•	
Cobalt		50	_ 1		
Copper	p,c,d,o	20	1	<0.25	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	0.98	
Lithium		50	710		
Magnesium		1	***		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o	-	0.5	0.0006	
Molybdenum	c	500			
Nickel	p,c,o	40	1	0.08	
Potassium		10	400		
Selenium	p,h,c,d		10	0.027	
Silicon		10	400	MARINE ALCOHOLIS	
* *** · · · · · · · · · · · · · · · · ·					

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Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	L0.05	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	c	· · · · · · · · · · · · · · · · · · ·		<del></del>	
Zinc	p,c,d,o	5	0.05	0.96	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

		111241211 1466011111 611111 61		
CLIENT	I.D.	Engineering Science	CAL LAS	3 NO. 14428 - 5
			<del></del>	
		VOLATILES	<u>ug/L</u>	~ 7
	24	acrolein	ND	. 2 a z
	3٧	acrylonitrile	NS	. 4.3
	4٧	benzene	No	42.
	6V	carbon tetrachloride	NO	8 7 7
	7٧	chlorobenzene	NO.	international and and and and and and and and and and
	100	1,2-dichloroethane		. 72.43
	117	1,1,1-trichloroethane	NO	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	137	1,1-dichloroethane	ND	2 2 11 6 8
	147	1,1,2-trichloroethane	ND	scau proc was found munch s sect was
	157	1,1,2,2-tetrachloroethane	עט	6534
	167	chloroethane	NO	, ,
	197	2-chloroethylvinyl ether	~0	eutero
'	237	chloroform	ND	s de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de l
	29V	1,1-dichloroethylene	ND	2 - 6 - 3
	30V	1,2-trans-dichloroethylene	WO	er cre
,	327	1,2-dichloropropane	ND.	
	337	1,3-dichloropropylene	ND.	Leve Leve Leve Leve Leve Leve Leve Leve
	387	ethyl benzene	NP	3 7 2 5 2
	447	methylene chloride	No	202 60
	45V	methyl chloride	w	78 83
	46V	methyl bromide	w	hea tuis us to the feet from
	479	bromoform	N	2 2 2 3 -
	487	dichlorobromomethane	<i>N</i> D	33-38
	497	trichlorofluoromethane	No	· *
	50V	dichlorodifluoromethane	NO	<b>7</b> -
	517	chlorodibromomethane	40	
	85V	tetrachloroethylene	NO	<del>-</del>
	864		μo	* = Less than 10 ug/L
	874	trichloroethylene	ASID .	ND = Not detected
	88		ND ···	<del>-</del>

# The carpu California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT	Engineering Science	CAL LAS N	0. 14556 -1
CLIENT I.D.	MW-9		
	VOLATILES	ug/i or ug/	Kg
_2 <b>y</b>	acrolein	ND	
3٧	acrylonitrile	10	
4٧	benzene	RO	
6V	carbon tetrachloride	25	
_7V	chlorobenzene	16	
_10 <b>v</b>	1,2-dichloroethane	10	
117	1,1,1-trichloroethane	NO	
130	1,1-dichloroethane	10	
147	1,1,2-trichloroethane	NO	
150	1,1,2,2-tetrachloroethane	10	
16V	chloroethane	no	
197	2-chloroethylvinyl ether	NO	
237	chloroform	20	
297	1,1-dichloroethylene	NO	
_30V	1,2-trans-dichloroethylene	np	
_327	1,2-dichloropropane	10	
337	1,3-d1chloropropylene	NO	
	ethy1benzene		
447	methylene chloride	NO	
_45V	methyl chloride	AD	
_46V	methyl bromide	M	
478	bromoform	No	
487	dichlorobromomethane	10	<b>-</b> · ·
490	trichlorofluoromethane	MO	n e
50V	dichlorodifluoromethane	Mo	
517	chlorodibromomethane	no	
85V	tetrachloroethylene	NO	
86V	toluene	NO	
879	trichloroethylene	225	ND - Not detected
	vinyl chloride	10	

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

	PRIORI	TY POLLUTANT	DATA SHEET pof	
CLIE	Engineering Scien	ice	CAL LAB NO. 14428-5	
	ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS MW pr	g/L
-	21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
	22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
	24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
	31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
	34A 2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
	57A 2-nitrophenol	ND	548 isophorone	ND
	58A 4-nitrophenol	ND	55B naphthalene	ND
	59A 2,4-dinitrophenol	ND	56B nitrobenzene /	VD.
	60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
	64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
	65A phenol	N	63B .N-nitrosodi-n-propylamine	ND
3			66B bis(2-ethylhexyl)phthalate 2	
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
	18 acenaphthene	ND.	68B di-n-butyl phthalate	ND
	5B benzidine	ND	698 di-n-octyl phthalatc	ND
	8B 1,2,4-trichlorobenzene		708 diethyl phthalate	ND
	9B hexachlorobenzene	ND	71B dimethyl phthalate	ND
	12B hexachloroethane	ND.	72B benzo(a)anthracene	ND
	188 bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
	208 2-chloronaphthalene	ND.	74B 3,4-benzofluoranthene	ND
	25B 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	N
	26B 1,3-dichlorobenzene	ND	76B chrysene	ND
	27B 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
-	28B 3,3'-dichlorobenzidine	ND	788 anthracene	ND.
	35B 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND
	36B 2,6-dinitrotoluene	ND	80B fluorene	ND
	378 1,2-diphenylhydrazine	_	818 phenanthrene	ND
	(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ND
•	398 fluoranthene	$\overline{ND}$		ND
•	408 4-chlorophenyl phenyl ether	$\overline{ND}$	848 pyrene	ND

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401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

				<del></del> -
CLIENT	Engineering Science		CAL LAB NO	
			CLIENT I.D. MW-9	
	ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	_ND
22A	p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
24A	2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	M
31A	2,4-dichlorophenol	NĎ	528 bexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	
57A	2-nitrophenol	ND	54B isophorone	M
58A	4-nitrophenol	ND	558 naph tha lene	ND
59A	2,4-dinitrophenol	ND	568 nitrobenzene	ND
60A	4,6-dinitro-o-cresol	N	618 N-nitrosodimethylamine	ND
64A	pentachlorophenol	<u> </u>	62B N-nitrosodiphenylamine	ND
65A	phenol	ND	63B , N-ni trosodi -n-propylamine	ND ND
			66B bis(2-ethylhexyl)phthalate	M
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	M
18	acenaph thene	ND	68B di-n-butyl phthalate	ND
58	benzidine	ND	69B di-n-octyl phthalate	ND
88	1,2,4-trichlorobenzene	M	70B diethyl phthalate	ND
98	hexachlorobenzene	M	71B dimethyl phthalate	ND
	hexach1oroethane	$\widehat{ND}$	72B benzo(a)anthracene	ND
188	bis(2-chloroethyl)ether	ND ND	738 benzo(a)pyrene	ND
	2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
258	1,2-dichlorobenzene	M	75B benzo(k)fluoranthene	M)
	1,3-dichlorobenzene	ND ND	76B chrysene	M
278	1,4-dichlorobenzene	ND	77B acenaphthylene	ND
	3,3'-dichlorobenzidine	$\mathcal{M}$	788 anthracene	AD_
	2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND
368	2,6-dinitrotoluene	ND ND	80B fluorene	MD.
	1,2-diphenylhydrazine		818 phenanthrene	ND
	(as azobenzene)		82B dibenzo(a,h)anthracene	·MD
	fluoranthene	<i>N</i> D	83B indeno(1,2,3-cd)pyrene	ND
401	3 4-chlorophenyl phenyl ether	$\mathcal{N}\mathcal{D}$	84B pyrene	·ND

## PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well # 9		ES ID <u>£26444</u>
	Aliqu	ot analyzed
Date Received 4/1-57	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist 113	Approved
	Detection Limits	Found (ppb)
Aldrin	0.003	0.15
Alpha BHC	0.002	0.08
Beta BHC		
Delta BHC		
Gamma BHC (lindane)	0.002	0.12
Chlordane		
DOD (TDE) -		
DDE		
DOT		
Dieldrin		
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Heptachlor		
Heptachlor epoxide	C.DC4	0.08
Methoxychlor		
Toxaphene		
2,4,D		
2,4,5,T	0.001	C. CU3
2,4,5 TP (Silvex)		
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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2-207

#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID NILL 9		es id 820621
	Aliqu	ot analyzed
Date Received 4/20-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. c·c-3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	£-004	
Gamma BHC (lindane)	0.002	C.16
Chlordane	0.04	
DDD (TDE)	C.C12	
DDE	0.006	
DDT	c.016	
Dieldrin	C.EEL	
Endosulfan I	c.ccs	
Endosulfan II		
Endosulfan sulfate	0.63	
Endrin	୦.୯୯୩	
Heptachlor	c.ccZ	
Heptachlor epoxide	0.664	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	
2,4,5,T	0001	007
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

9-908

300

# 3/31 METALS REPORT FORM

Sample ID McCkilon AFB MW#9	
Date Received   April 198	<u> </u>
Date analyzed	

ES ID <u>\$20444</u>
Aliquot snalyzed _____

Method Used ____

Chemist _____ Approved ____

Element	Code	Detection Flame	r Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.00 <b>5</b>	
Arsenic	p,h,c,d,o		10	<0.0 <b>5</b>	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	_0.1	<0.01	
Calcium		50	400		
Chromium (+3)	p,h,c,d,o	20	1) total	<0.0 <b>5</b>	
Chromium (+6)	c		رود		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.0 <b>5</b>	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	0.29	
Lithium		50		· · · · · · · · · · · · · · · · · · ·	
Magnesium		1	•		
Manganese	ď	10	0.5		
Sercury	p,h,c,d,o		0.5	0.0006	
Molybdenum	c	500		• • • • • • •	
Mickel	p,c,o	40	1	<0.05	
Potassium		10	-		· · · · · · · · · · · · · · · · · · ·
Selenium	p,h,c,d		10	<0.01	<u> </u>
Silicon		10			

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8/27/82

2-009

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<b>&lt;0.05</b>	
Sodium		10			
Thallium	p,c,				
Tin				<del></del>	<del> </del>
Vanadium	c		<del></del>		
Zinc	p,c,d,o	5	0.05	0.15	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

1000

### METALS REPORT FORM

Sample ID McClellan AFB  Mw #9		4/28	A	ES ID <u>062/</u> Aliquot analyzed		
Date Received Date analyzed		Chemist	H			
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
Aluminum		500	50			
Antimony	p,c	500	10	<0.00 <b>5</b>		
Arsenic	p,h,c,d,o		10	40.05		
Barium	h,c,d	1,000	5	· · · · · · · · · · · · · · · · · · ·		
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	(0.01		
Calcium		50	***			
Chromium (+3)	p,h,c,d,o .	20	1 tota	1 <0.05		
Chromium (+6)	C		. 10)			
Cobalt		50	1			
Copper	p,c,d,o	20	1	0.12		
Gold		100	1			
Iron	đ	100	1			
Lead	p,h,c,d,o	100	10	<0.01		
Lithium		50				
Magnesium		1	***	······································		
Manganese	đ	10	0.5			
Mercury	p,h,c,d,o		0.5	<0.0005		
Molybdenum	c	500			<del></del>	
Nickel	p,c,o	40	1	<0.05		
Potassium		10				
Selenium	p,h,c,d		10	Z0.01		
Silicon		10				

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8/27/82

3-311

Detection Limit (ppb)						
Element	Code	Flame	Flameless	Detected	Limit	
Silver	p,h,c,d,o	50	1	40.05		
Sodium		10				
Thallium	p,c,					
Tin						
Vanadium	c					
Zinc	p,c,d,o	5	0.05	0.05		

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

### PRIORITY POLLUTANT DATA SHEET

	PRIORITY POLLUTARI DATA	OUEE1	
CLIENT	Engineering Science	CAL LAB	NO. 14428 - 6
CLIENT I.D.	Well MWID	<del></del>	
		<del></del>	
	VOLATILES	ug/L	
_2V	acrolein	ND	
_3V	acrylonitrile	NO	
4٧	benzene		
6V	carbon tetrachloride	~5	
77	chlorobenzene		
100	1,2-dichloroethane	17-	
117	1,1,1-trichloroethane	45	
137	1,1-dichloroethane	19	
147	1,1,2-trichloroethane	10	
157	1,1,2,2-tetrachloroethane		
16V	chloroethane	٠,	
197	2-chloroethylvinyl ether	~~	
237	chloroform	ND	
_29¥	1,1-dichloroethylene	500	
_30 <b>y</b>	1,2-trans-dichloroethylene	15	
327	1,2-dichloropropane		
33V	1,3-dichloropropylene	<u>u)</u>	
	ethy1benzene	NO_	
447	methylene chloride		
_45V_	methyl chloride		
_46V	methyl bromide	10	
471	bromoform	<u>u</u>	
_48V	dichlorobromomethane	10	
<u>49V</u>	trichiorofluoromethane		
_50Y_	dichlorodifluoromethane	10	
517	chlorodibromomethane	14)	
85V	tetrachloroethylene	<u></u>	and the second
86V	toluene		* Less than 10-ug/t
877	trichloroethylene	140	ND = Not detected
887	vinyl chloride	w	

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401 NORTH 16th STREET RAMENTO, CALIFORNIA 95814 (916) 444-9802

	TY POLLUTANT	pf
LIENT <u>Engineering Science</u>		CAL LAB NO. 14428-6
<b>v</b> ,	- 11	CLIENT I.D. Well # 10  RASE/NEUTRAL COMPOUNDS MW
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS //TW ug/L
21A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether AD
22A p-chloro-m-cresol	ND	428 bis(2-chloroisopropy1)ether ND
24A 2-chlorophenol	ND	438 bis(2-chloroethoxy)methane ND
31A 2,4-dichlorophenol	ND_	52B bexachlorobutadiene ND
34A 2,4-dimethylphenol	ND_	53B hexachlorocyclopentadiene ND
57A 2-nitrophenol	ND.	548 isophorone ND
58A 4-nitrophenol	ND	558 naphthalene ND
59A 2,4-dinitrophenol	ND.	56B nitrobenzene ND
60A 4,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine ND
65A pheno1	<u> </u>	638 .N-nitrosodi-n-propylamine ND
		66B bis(2-ethylhexyl)phthalate /3
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate ND
18 acenaphthene	ND	688 di-n-butyl phthalate ND
5B benzidine	ND	698 di-n-octyl phthalate ND
88 1,2,4-trichlorobenzene	ND	708 diethyl phthalate ND
9B hexach1orobenzene	ND	71B dimethyl phthalate ND
12B hexachloroethane	ND	72B benzo(a)anthracene ND
188 bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene ND
208 2-chloronaphthalene	ND	748 3,4-benzofluoranthene ND
25B 1,2-dichlorobenzene	21	75B benzo(k)fluoranthene ND
268 1,3-dichlorobenzene	ND	768 chrysene ND
27B 1,4-dichlorobenzene	ND	778 acenaphthylene ND
28B 3,3'-dichlorobenzidine	ND	788 anthracene ND
35B 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene NI
36B 2.6-dinitrotoluene	ND	80B fluorene NI
37B 1,2-diphenylhydrazine		818 phenanthrene ND
(as azobenzene)	ND	82B dibenzo(a,h)anthracene ND
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene
408 4-chlorophenyl phenyl ether	ND	848 pyrene ND

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well #10		25 ID 820445
	Aliqu	uot analyzed
Date Received 4/1-82	Detector Used:	Coulson, EC Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.803	1.80
Alpha BHC		
Beta BHC		
Delta BHC		
Gamma BHC (lindane)		
Chlordane	i	
DOD (TDE)		
DDE		
DDT	:	
Dieldrin		
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Heptachlor		
Heptachlor epoxide		
Methoxychlor		
Toxaphene		
2,4,D		
2,4,5,T		
2,4,5 TP (Silvex)		
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### METALS REPORT FORM

Sample ID McClellon AFB mw #10		3/30	· •	ES ID <u>820445</u> Aliquot analyzed		
Date Received		/				
Date analyzed		Chemis				
Element	Code	Detection Flame	Limit (ppb) - Flameless	Detected	Limit	
Aluminum		500	50			
Antimony	p,c	500	10	0.007		
Arsenic	p,h,c,d,o		10	<b>&lt;0.05</b>		
Barium	h,c,d	1,000	5			
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	0.012		
Calcium		50	989			
Chromium (+3)	p,h,c,d,o	20	1)tota	1 .0.12		
Chromium (+6)	c	فينتنه	رود			
Cobalt		50	1			
Copper	p,c,d,o	20	1	<0.05		
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	0.03		
Lithium		50				
Magnesium		. 1				
Manganese	đ	10	0.5			
Mercury	p,h,c,d,o		0.5	0.00/0		
Molybdenum	c	500	***			
Nickel	p,c,o	40	1	0.10		
Potassium		10				
Selenium	p,h,c,d		10	<u> </u>		
Silicon		10				

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8/27/82

2-216

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<i>&lt;0.05</i>	
Sodium		10			
Thellium	p,c,				
Tin	<del></del>				
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.073	· · · · · · · · · · · · · · · · · · ·

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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# 3/31 Mangle California Analytical Laboratories, Inc.

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

		- Taranti I debanini bilin				
CLIENT		ngineering Science Well MWII	CAL LAB	NO. <u>144</u>	128 -	7
		VOLATILES	ug/L			
2	<b>2V</b>	acrolein				
	IV	acrylonitrile	10			
	٧	benzene	*			
6	SV	carbon tetrachloride				
7	7	chlorobenzene				
	OV	1,2-dichloroethane	ND			
_1	17	1,1,1-trichloroethane	4300			
	37	1,1-dichloroethane	170			
_1	44	1,1,2-trichloroethane	AN			
Ī	5 <b>V</b>	1,1,2,2-tetrachloroethane				
_1	6V	chloroethane				
_1	97	2-chloroethylvinyl ether				
_2	234	chloroform	40			
_2	29V	1,1-dichloroethylene	19.300			
_3	30 <b>V</b>	1,2-trans-dichloroethylene	180			
_3	32 <b>y</b>	1,2-dichloropropane	10			
3	337	1,3-dichloropropylene				
_3	38V	ethylbenzene				
_4	147	methylene chloride	3700			
_4	157	methyl chloride				
_4	167	methyl bromide		-		
_4	17V	bromoform	<u> </u>			
_4	18V	dichlorobromomethane				
_4	19 <b>V</b>	trichlorofluoromethane	1/D			••
	50 <b>V</b>	dichlorodifluoromethane	10			
	51 <b>V</b>	chlorodibromomethane				-
8	85V	tetrachloroethylene	10			••
_8	<u>86V</u>	toluene	<i>50</i>	+ = Less		
	877	trichloroethylene	2100	ND = Not	detecte	d.
8	88V	vinyl chloride	20 pg	· b · · ·		• •

5895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105 .

8/18

### PRIORITY POLLUTANT DATA SHEET

CLIENT	<u>Engl</u> 1.0	neering Science Well #11	CAL LAB NO. <u>/5052-/</u>
		VOLATILES	սց/Լ
	27	acrolein	nd
	3٧	acrylonitrile	nd
	4٧	benzene	nd
	6٧	carbon tetrachloride	nd
	7٧	chlorobenzene	nd
	100	1,2-dichloroethane	nd
	117	1,1,1-trichloroethane	12,000/
	137	l,l-dichloroethane	250
	147	1,1,2-trichloroethane	nd
	157	1,1,2,2-tetrachloroethane	nd
	167	chloroethane	nd
	190	2-chloroethylvinyl ether	nd.
	_23V	chloroform	*
	29V	1,1-dichloroethylene	63000 V
	307	1,2-trans-dichloroethylene	2001
	_32V	1,2-dichloropropane	nd
	_33V	1,3-dichloropropylene	nd
		ethylbenzene	nd
	447	methylene chloride	nd
	_45V	methyl chloride	<u>nd</u>
	46V	methyl bromide	nd
	47٧	bromoform	nd
	<u>48V</u>	dichlorobromomethane	nd
	490	trichlorofluoromethane	nd
	50V	dichlorodifluoromethane	nd
	<u>51V</u>	chlorodibromomethane	nd
	<u>85</u> V	tetrachloroethylene	nd
	_86V	toluene	-nd ,* = Less than 10 ug/L
	877	trichloroethylene	5000 / ND = Not detected
	88V	vinyl chloride	nd
		1,1,2-trichloro-2,2,1-trifluoroethane	nd

APDF5

3/31 sample)

### California Analytical Laboratories, Inc.

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

PRIORITY	POLLUTANT (	DATA SHEET of	
CLIENT Engineering Science		CAL LAB NO. 14428-7	
<del>-                                    </del>		CLIENT I.D. Well年11	
ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A 2,4,6-trichlorophenol	_ND	418 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND_	54B isophorone	ND
58A 4-nitrophenol	_WD_	55B naphthalene	<del>*</del>
59A 2,4-dinitrophenol	ND.	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B , N-nitrosodi-n-propylamine	NB
		66B bis(2-ethylhexyl)phthalate	14
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
18 acenaphthene	<u>(IN</u>	68B di-n-butyl phthalate	ND
58 benzidine	N)	698 di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
9B hexachlorobenzene	ND	71B dimethyl phthalate	ND
128 hexachloroethane	ND	728 benzo(a)anthracene	ND
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene	NI)	74B 3,4-benzofluoranthene	ND
25B 1,2-dichlorobenzene	<del>*</del>	75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene	ND	76B chrysene	ND
27B 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
28B 3,3'-dichlorobenzidine	ND	788 anthracene	ND
35B 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND.
368 2,6-dinitrotoluene	ND.	808 fluorene	ND.
37B 1,2-diphenylhydrazine		818 phenanthrene	ND
(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ND
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	M)
408 4-chlorophenyl phenyl ether	(N	848 pyrene	ND

Sa66 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-6106

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	PRIORI	IT PULLUTANT D		nce:	
CLIE	ent <u>Engineering</u> Science			CAL LAB NO. 15052-1. CLIENT I.D. Well'"	AB
	ACID COMPOUNDS	μg/L	BA	SE/NEUTRAL COMPOUNDS	⊮g/L
	21A 2,4,6-trichlorophenol	nd	41B	4-bromophenyl phenyl ether	nd
	22A p-chloro-m-cresol	nd	428	bis(2-chloroisopropyl)ether	nd
	24A 2-chlorophenol	nd	43B	bis(2-chloroethoxy)methane	nd
	31A 2,4-dichlorophenol	nd	52B	bexachlorobutadiene	nd
	34A 2,4-dimethylphenol	nd	53B	hexachlorocyclopentadiene_	nd
	57A 2-nitrophenol	nd	54B	isophorone	nd
	58A 4-nitrophenol	nd	55B	naphthalene	25
	59A 2,4-dinitrophenol	nd	56B	nitrobenzene	nd
	60A 4,6-dinitro-o-cresol	nd	61B	N-ni-trosodimethylamine	nd
	64A pentachlorophenol	nd	62B	N-nitrosodiphenylamine	na
	65A pheno?	nd		.N-nitrosodi-n-propylamine	nd
7	-		66B	bis(2-ethylhexyl)phthalate	20
	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	· na
		and	68B	di-n-butyl phthalate	na
	1B acenaphthene 5B benzidine	nd nd	698	di-n-octyl phthalate	na
	<u>ريونا المان جي المنظمين والمنظمين والمنظم والمناول والمناول والمناول والمناول والمناول والمناول والمناول والمناول و</u>		70B	diethyl phthalate	nd
			71B	dimethyl phthalate	nd
	98 hexachlorobenzene	nd and	72B	benzo(a)anthracene	nd
	128 hexachloroethane	nd	73B	benzo(a)pyrene	nd
	18B bis(2-chloroethyl)ether 20B 2-chloronaphthalene	<u>nd</u>	74B	3,4-benzofluoranthene	nd
	258 1,2-dichlorobenzene	<u>nd</u> 321	75B	benzo(k)fluoranthene	nd
		<u></u> *√	76B	chrysene	nd
	268 1,3-dichlorobenzene		77B	acenaphthylene	nd
	278 1,4-dichlorobenzene 288 3,3'-dichlorobenzidine	101	788	anthracene	nd
	35B 2,4-dinitrotoluene	<u>nd</u>	79B	benzo(ghi)perylene	na
		nd nd	808	fluorene	na
• ·	36B 2,6-dinitrotoluene 37B 1,2-diphenylhydrazine	<u>nd</u>	818	phenanthrene	nil
-	(às azobenzene)	nd	82B	dibenzo(a,h)anthracene	nd
	398 fluoranthene	nd	83B	indeno(1,2,3-cd)pyrene	na
:	408 4-chlorophenyl phenyl ether	nd	84B	pyrene	nd
٠,				<del></del>	

PESTICIDE/HERBICIDE	REFORT	FORM
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Sample ID	MW PEST:	ICIDE/HERBICIDE REPORT F	ORM
Date Received			ES ID 82044L
Detection Limits		Al	iquot analyzed     L
Aldrin Alpha BHC Beta BHC Delta BHC Gamma BHC (lindane) Chlordane DDD (TDE) DDE DDT Disldrin Endosulfan II Endosulfan sulfate Endrin Heptachlor Heptachlor Heptachlor Toxaphene 2,4,5,T 2,4,5,TP (Silvex)	Date Received 4/1-82	Detector Use	d: Coulson, E Flame, FI
Aldrin Alpha BHC Beta BHC Delta BHC Gamma BHC (lindane) Chlordane DDD (TDE) DDE DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Heptachlor Heptachlor Heptachlor Toxaphene 2,4,D 2,4,5,T 2,4,5 TP (Silvex)	Date analyzed	Chemist LIB	Approved
Alpha BHC  Beta BHC  Camma BHC (lindane)  Chlordane  DDD (TDE)  DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor  Heptachlor  Toxaphene  2,4,D  2,4,5,T  2,4,5,TP (Silvex)		Detection Limits	Found (ppb)
Beta BHC  Delta BHC  Gamma BHC (lindane)  Chlordane  DDD (TDE)  DDE  DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5,TP (Silvex)	Aldrin		
Delta BHC  Gamma BHC (lindane)  Chlordane  DDD (TDE)  DDE  DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Alpha BHC		
Chlordane  DDD (TDE)  DDE  DDT  Dieldrin  Endosulfan I  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor  Heptachlor  Toxaphene  2,4,5,T  2,4,5,TP (Silvex)	Beta BHC		
Chlordane  DDD (TDE)  DDE  DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Delta BHC		
DDD (TDE)  DDE  DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Gamma BHC (lindane)		
DDE DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Heptachlor Heptachlor Toxaphene 2,4,D 2,4,5,T 2,4,5 TP (Silvex)	Chlordane	1	
DDT  Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	DDD (TDE)		
Dieldrin  Endosulfan I  Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	DDE	:	
Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,5,T  2,4,5 TP (Silvex)	DDT		
Endosulfan II  Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Dieldrin	•	
Endosulfan sulfate  Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Endosulfan I	1	
Endrin  Heptachlor  Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,5  2,4,5,T	Endosulfan II		
Heptachlor Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Endosulfan sulfate		
Heptachlor epoxide  Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Endrin		
Methoxychlor  Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Heptachlor		
Toxaphene  2,4,D  2,4,5,T  2,4,5 TP (Silvex)	Heptachlor epoxide	ĺ	
2,4,D 2,4,5,T 2,4,5 TP (Silvex)	Methoxychlor		
2,4,5,T 2,4,5 TP (Silvex)	Toxaphene		
2,4,5 TP (Silvex)	2,4,D		
	2,4,5,T		
DBCP (Dibromochloro propane)	2,4,5 TP (Silvex)		
	DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### METALS REPORT FORM

Sample ID McCk/km AFB		3/30		ES ID <u>\$20446</u> Aliquot analyzed		
Date Received		7.		Method Used		
	Date analyzed		·	Approved		
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
Aluminum	•	500	50			
Antimony	p,c	500	10	<0.005		
Arsenic	p,h,c,d,o		10	<0.0 <b>5</b>		
Barium	h,c,d	1,000	5			
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	<0.01		
Calcium		50				
Chromium (+3)	p,h,c,d,o	20	1 } tol	tal 0.07		
Chromium (+6)	C		10)			
Cobalt		50	1			
Copper	p,c,d,o	20	1	<0.05		
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	0.093		
Lithium		50				
Magnesium		1	****			
Manganese	d	10	0.5			
Mercury	p,h,c,d,o	-	0.5	0.0021	· · · · · · · · · · · · · · · · · · ·	
Molybdenum	С	500				
Nickel	p,c,o	40	1	0.05		
Potassium		10				
Selenium	p,h,c,d	420	10	0.049		
Silicon		10				

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8/27/82

Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
p,h,c,d,o	50	1	40.05	
	10			
p,c,				
	,			
c				
p,c,d,o	5	0.05	0.036	
	p,h,c,d,o p,c,	Code Flame  p,h,c,d,o 50  10  p,c,	p,h,c,d,o 50 1 10 p,c,	Code Flame Flameless Detected  p,h,c,d,o 50 1 40.05  10  p,c,

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		Engineering Science	CAL LAB NO.	14536-2
CLIENT	I.D.	MWR		
		VOLATILES	ug/Lor ug/Kg	
	27	acrolein	ND	
	_3V	acrylonitrile		
	47	benzene	NO	
	6V	carbon tetrachloride		
	77	chlorobenzene	NO	
	107	1,2-dichloroethane	AD.	
	117	1,1,1-trichloroethane	2700	
	137	1,1-dichloroethane	10	
	147	1,1,2-trichloroethane	No.	
	157	1,1,2,2-tetrachloroethane	NO	
	167	chloroethane	no	
	197	2-chloroethylvinyl ether	uo_	
	237	chloroform	no	
	291	1,1-dichloroethylene	4200	
	30V	1,2-trans-dichloroethylene		
	32 <b>Y</b>	1,2-dichloropropane		•
	337	1,3-dichloropropylene	NO.	
	<u>38v</u>	ethylbenzene	10	-
	447	methylene chloride	NO	
	45V	· methyl chloride	n	
	467	methyl bromide	<u> </u>	
	474	bromoform	<u> </u>	
	487	dichlorobromomethane	No.	
	497	trichlorofluoromethane		•
	<u>50V</u>	dichlorodifluoromethane	<u> MO</u>	· • · · · · · · · · · · · · · · · · · ·
	517	chlorodibromomethane	NO	<del></del> -
	85V	tetrachloroethylene	70	er en men men e
	867	toluene	10	
	877	trichloroethylene		* Not detected
	887	vinyl chloride	<i>u</i> o	* · · · · · · · · · · · · · · · · · · ·

5806 POWER INN ROAD SACRAMENTO, CALIFORNIA 86824 (818) 381-5105 . 8/13

### PRIORITY POLLUTANT DATA SHEET

CLIENT	Engine	erina Science	CAL LAB NO	. 15052-21
CLIENT		J Wellmy 2		
				- ·
		VOLATILES	ug/L	
	2 <b>V</b>	acrolein	_nd	
	3٧	acrylonitrile	nd	
	4٧	benzene	nd	
	6 <b>V</b>	carbon tetrachloride	nd	
	78	chlorobenzene	nd	
	10V	1,2-dichloroethane	_nd	
	117	1,1,1-trichloroethane	520V	
	13V	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	1 <u>5</u> V	1,1,2,2-tetrachloroethane	nd	•
	167	chloroethane	nd	
•	197	2-chloroethylvinyl ether	nd	·
•	23V	chloroform	nd	
•	29V	1,1-dichloroethylene	25001	
•	30V	1,2-trans-dichloroethylene	nd	
`	32V	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	
	- 38V	ethylbenzene	nd	
	44V	methylene chloride	nd	
	45V	methyl_chloride	nd	
	46V	methyl bromide	nd	
·	47V	bromoform	nd	
•	48V	dichlorobromomethane	nd/	
	49V	trichlorofluoromethane	71	
	50V	dichlorodifluoromethane .	m	
•	517	chlorodibromomethane	nd	
•	85V	tetrachloroethylene	_181	
•	86V	toluene	nd *	= Less than 10 ug/L
•	87Y	trichloroethylene	160 / ND	
•	88V	vinyl chloride	nd	· · · · · · · · · · · · · · · · · · ·
		1,1,2-trichloro-2,2,1-trifluoroethane	nd	
				•

. : # # 13. F. C. 11

401 NORTH 18th STREET JACRAMENTO, CALIFORNIA 95814 (916) 444-9802

LIENT	Engineering Science		CAL LAB NO. 14556	-2
-	July Garage		CLIENT I.D. MW/2	_
	ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A	2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	MD
22A	p-chloro-m-cresol	N	42B bis(2-chloroisopropyl)ether	ND
24A	2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	N
31A	2,4-dichlorophenol	ND	528 bexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
57A	2-nitrophenol	ND	548 isophorone	ND
58A	4-nitrophenol	ND	558 naphthalene	ND
59A	2,4-dinitrophenol	N	56B nitrobenzene	M
60A	4,6-dinitro-o-cresol	N	61B N-nitrosodimethylamine	ND
64A	pentach Torophenol	ND	62B N-nitrosodiphenylamine	M
65A	phenol	ND	638 N-nitrosodi-n-propylamine	ND
			66B bis(2-ethylhexyl)phthalate	ND
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	(A)
18	acenaph thene	ND.	688 di-n-butyl phthalate	ND
	benzi di ne	ND	69B di-n-octyl phthalate	W
	1,2,4-trichlarobenzene	ND	708 diethyl phthalate	ND
. —	hexach1orobenzene	ND	71B dimethyl phthalate	ND
	hexach l oroe thane	ND	72B benzo(a)anthracene	N
	bis (2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
	2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	$\mathcal{M}$
	1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	ND
	1,3-dichlorobenzene	ND	76B chrysene	ND
. ——	1,4-dichlorobenzene		778 acenaphthylene	ND
	3,3'-dichlorobenzidine	ND	788 anthracene	ND
. —	2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	ND
	2,6-dinitrotoluene	ND	80B fluorene	ND
	1,2-diphenylhydrazine		818 phenanthrene	ND
<u></u>	(as azobenzene)	AD.	828 dibenzo(a,h)anthracene	AID
398	fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	N
·· - 40B	4-childrophenyl phenyl ether	ND	848 pyrene	-NE

#### S665 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

8/13

ENT E	ngineering Science			CAL LAB NO. 15052 -	2
	ACID COMPOUNDS	ug/L		CLIENT I.D. <u>Welliz</u> TRAL COMPOUNDS	rg/L
21A 2	,4,6-trichlorophenol	- und	418 4-bro	mophenyl phenyl ether	na
22A p	-chloro-m-cresol	nd		-chloroisopropyl)ether	20
24A 2	-chlorophenol	nd		-chloroethoxy)methane	20
31A 2	,4-dichlorophenol	nd	52B bexac	hlorobutadiene	· 7/1
34A 2	,4-dimethylphenol	nd	53B hexac	hlorocyclopentadiene	n
57A 2	-nitrophenol	nd	548 isoph	orone	n
58A 4	-nitrophenol	nd		halene	- n
59A 2	,4-dinitrophenol	nd		benzene	71,
60A 4	,6-dinitro-o-cresol	nd		rosodimethylamine	- 74.
	entachlorophenol	nd		rosodiphenylamine -	n
65A p	henő l	nd		rosodi-n-propylamine	- n
		<del></del>		-ethylhexyl)phthalate	$-\eta$
	BASE/NEUTRAL COMPOUNDS			benzyl phthalate	7
1B ac	enaphthene	and.		butyl phthalate	7
	nzidine	nd nd		octyl phthalate	710
	2,4-trichlorobenzene			yl phthalate	n
	xachlorobenzene	<del></del> ,		hyl phthalate	21
	xachloroethane	nd		(a)anthracene	2
		nd nd		(a)pyrene	n
	s(2-chloroethyl)ether	nd		enzofluoranthene	21
	chloronaphthalene	nd		(k)fluoranthene	n
	2-dichlorobenzene	nd	768 chrys		n
	3-dichlorobenzene	nd		phthylene	2
	4-dichlorobenzene	nd		acene	n
. ———	3'-dichlorobenzidine	nd nd		(ghi)perylene	n
	4-dinitrotoluene	nd	808 fluor		$\sim$
	6-dinitrotoluene	nd		nthrene	n
	2-diphenylhydrazine s azobenzene)	nd		zo(a,h)anthracene	n
	uoranthene	nd		o(1,2,3-cd)pyrene	N
	chlorophenyl phenyl ether	nd	848 pyren		J. 4

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID <u>AIW /2</u>	ID <u>//(//</u> ES					
	Aliquot analyzed					
Date Received 4 29-82-	Detector Used:	Coulson, EC, Flame, PID				
Date analyzed	Chemist <u>LIB</u>	Approved				
	Detection Limits (ppb)	Found (ppb)				
Aldrin	c. c·c·3					
Alpha BHC	0.002					
Beta BHC	0.004					
Delta BHC	Ö.004					
Gamma BHC (lindane)	0.002					
Chlordane	0.04					
DDD (TDE)	6.012					
DDE	0.006					
DDT	د داد					
Dieldrin	Cittle					
Endosulfan I	¢.005					
Endosulfan II	0.61					
Endosulfan sulfate	0.03					
Endrin	0.009					
Heptachlor	c.cc2					
Heptachlor epoxide	0.009					
Methoxychlor	0.62					
Toxaphene	C.40					
2,4,D	0.001					
2,4,5,T	0001	C.CCA				
2,4,5 TP (Silvex)	0.002					
DBCP (Dibromochloro propane)						
المراز والمتروي والتكريب أكالت ويروان والمتراث فالأراب والمتراث والمتراث والمتراث والمتراث والمتراث	بأسري والمناز والمستوال والمستون والمستون والمستون والمستون والمستون والمستون والمستون والمستون والمستون والمستون					

ENGINEERING-SCIENCE - BERKELEY LABORATORY

3-309

		METALS RE	LPORT FORM		
Sample ID McC MW# 12		3/30		liquot analyzed	
Date Received		Oh and oh	M	ethod Used	
Date analyzed		Chemist		. Approved _	
Element	Code	Detection I	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	40.005	
Arsenic	p,h,c,d,o	*****	10	<b>40.05</b>	
Barius	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 Etota	1 <0.05	
Chromium (+6)	C		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	ı	<b>40.05</b>	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesius		1	400		*******
Manganese	đ	10	0.5		
Hercury	p,h,c,d,o		0.5	<0.0005	<u> </u>
Molybdenum	С	500	43.5		
Nickel	p,c,o	40	1	<0.05	
Potassium		10		1.50	
Selenium	p,h,c,d		10	_<0.01	

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JANGER

64/18

Silicon

8/27/82

a-230.

	-	Detection	n Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.07	

codes: p - EPA priority pollutant

h - EPA hezardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

401 NORTH IND STREET SACRAMENTO. CALIFORNIA 95814 (916) 444-9602

CLIENT		Engineezing Science	CAL LAB	NO. 14428 - 8
CLIËNT		Well MW13		
		VOLATILES	ug/L	
	27	acrolein		÷
	_3V	acrylonitrile	No	
	4٧	benzene	ND	· -
	6V	carbon tetrachloride		
	7٧	chlorobenzene		
	100	1,2-dichloroethane		
	117	1,1,1-trichloroethane	300	• •
	137	1,1-dichloroethane	40	
	147	1,1,2-trichloroethane	No	**
	157	1,1,2,2-tetrachloroethane		e e
	_16V_	chloroethane	~	
	190	2-chloroethylvinyl ether	NI	
	23V	chloroform	10	
	29 <b>V</b>	1,1-dichloroethylene	1100	
	30V	1,2-trans-dichloroethylene	80	
	32 <b>V</b>	1,2-dichloropropane	~^	· · · · · · · · · · · · · · · · · · ·
	_33V	1,3-dichloropropylene	NO	the first terminal processors of
	38V	ethyl benzene	N) ···	
	447	methylene chloride	1000	
	45V	methyl chloride	N)	
	46V	methyl bromide	مريم	·
	478	bromoform	Lŋ ···	
	_48V	dichlorobromomethane	ON	The second companies and the contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the
	49V	trichlorofluoromethane	NO	and the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distribution of the second distri
	50Y_	dichlorodifluoromethane	Nn ·	
	517	chlorodibromomethane	N1)	ayan and the treatment of the Managarian was the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the transition of the
	85V_	tetrachloroethylene	20	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
	867	toluene	N)	
	877	trichloroethylene	1470 _	ND = Not detected
	887	vinyl chloride		<del>ppb</del>
				FF-

5895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-5105

0/10

### PRIORITY POLLUTANT DATA SHEET

CLIENT	Engir	eering Science	_ CAL LAB	NO. 15052-3
CLIENT		Well AW13	<del>1,-11-</del>	
		<u>VOLATILES</u>	ug/L	
,	27	acrolein	nd	•
	3٧	acrylonitrile	nd	
	4٧	benzene	nd	
	6V	carbon tetrachloride	nd	
•	7٧	chlorobenzene	nd	
	107	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	68	
•	13V	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	157	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd	
	29V	1,1-dichloroethylene	780	<b>✓</b>
	30V	1,2-trans-dichloroethylene	6 v	
	32V	1,2-dichloropropane	nel	
	337	1,3-dichloropropylene	nd	-
	387	ethylbenzene	nd	
	441	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	
	478	bromoform	nd	
	48V	dichlorobromomethane	nd	
	49V	trichlorofluoromethane	nd	
	50V_	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	
•	85V	tetrachloroethylene	*	/
•	86V	toluene	nd	* = Less than 10 ug/L
•	87V	trichloroethylene	a 30 V	ND = Not detected
•	88V	vinyl chloride	* ^	· · · · · · · · · · · · · · · · · · ·
		1,1,2-trichloro-2,2,1-trifluoroethane	nd	

in the first

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

	PRIOR	TITY POLLUTANT	DATA SHEET if
CLIENT	Engineering Science		CAL LAB NO. <u>14428-8</u>
CETENI	aginaring source	·	client I.D. <u>well#13</u>
	ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS MW µg/L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether ND
<u>22</u> F	p-chloro-m-cresol	ND	428 bis(2-chloroisopropyl)ether ND
24/	2-chlorophenol	ND	43B bis(2-chloroethoxy)methane ND
31/	2,4-dichlorophenol	ND	52B bexachlorobutadiene ND
34/	2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene ND
57/	2-nitrophenol	CN	548 isophorone ND
58/	4-nitrophenol	ND	55B naphthalene ND
59/	2,4-dinitrophenol	ND	56B nitrobenzene
60/	A 4,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine -ND
64/	A pentachlorophenol	ND	62B N-nitrosodiphenylamine ND
65/	A pheno1	ND	638 N-nitrosodi-n-propylamine ND
`			66B bis(2-ethylhexyl)phthalate 64
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate ND
18	acenaphthene	ND	688 di-n-butyl phthalate ND
5B	benzidine	ND	698 di-n-octyl phthalate ND
88	1,2,4-trichlorobenzene	ND	708 diethyl phthalate ND
98	hexachlorobenzene	ND	71B dimethyl phthalate ND
-	B hexachloroethane	ND	728 benzo(a)anthracene ND
-	B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene ND
	B 2-chloronaphthalene	ND	748 3,4-benzofluoranthene ND
	B 1,2-dichlorobenzene	# 3米	75B benzo(k)fluoranthene ND
	B 1,3-dichlorobenzene	ND	76B chrysene ND
	B 1,4-dichlorobenzene	ND	77B acenaphthylene ND
	B 3,3'-dichlorobenzidine	ND	788 anthracene ND
—	B 2,4-dinitratoluene	ND	798 benzo(ghi)perylene ND
-	B 2,6-dinitrotoluene	ND	808 fluorene ND
	B 1,2-diphenylhydrazine	_	81B phenanthrene ND
	(as azobenzene)	ND	82B dibenzo(a,h)anthracene ///
	B fluoranthene	ND	83B indeno(1,2,3-cd)pyrene ND
40	B 4-chlorophenyl phenyl ether	ND	848 pyrene ND

5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105 0/10

IENT _	Engineering Science			CAL LAB NO. 15052-	
	ACID COMPOUNDS	ug/L	<u>BA</u>	CLIENT I.D. Well, HW/ 3 SE/NEUTRAL COMPOUNDS	1·9/L
21A	2,4,6-trichlorophenol	_ nd	41B	4-bromophenyl phenyl ether	210
22A	p-chloro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	20
24A	2-chlorophenol	nd	43B	bis(2-chloroethoxy)methane	700
31A	2,4-dichlorophenol	nd	52B	bexachlorobutadiene	no
34A	2,4-dimethylphenol	nd	53B	hexachlorocyclopentadiene	no
57A	2-nitrophenol	nd	548	isophorone	20
58A	4-nitrophenol	nd	55B	naph tha lene	no
59A	2,4-dinitrophenol	nd	56B	nitrobenzene	7:4
60A	4,6-dinitro-o-cresol	nil	61B	N-nitrosodimethylamine	no
64A	pentachlorophenol	ncl	62B	N-nitrosodiphenylamine	no
65A	phenol	nd		.N-nitrosodi-n-propylamine	n
			66B	bis(2-ethylhexyl)phthalate	ma
	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	n
18	acananhthana	- ad	688	di-n-butyl phthalate	'n
	acenaphthene benzidine	<u>-nd</u>	698	di-n-octyl phthalate	n
	1,2,4-trichlorobenzene	nd	70B	diethyl phthalate	n
-	hexachlorobenzene	<u>nd</u>	71B	dimethyl phthalate	n
	hexach loroe thane	na	728	benzo(a)anthracene	2
	والتراجي والمستان والموافق المستوجد والمستان البدوان والمتان الواجما	<u>na</u>	738	benzo(a)pyrene	n
	bis(2-chloroethyl)ether	nd nd	74B	3,4-benzofluoranthene	$\mathcal{D}$
	2-chloronaphthalene	nil od	758	benzo(k)fluoranthene	2
	1,2-dichlorobenzene	nd	768	chrysene	7
	1,3-dichlorobenzene	- M	77B	acenaphthylene	n
	1,4-dichlorobenzene	nd	788	anthracene .	7
	3,3'-dichlorobenzidine	nd nd	798	benzo(ghi)perylene	n
	2,4-dinitrotoluene	<u>nd</u>	80B	fluorene	n
. ——	2,6-dinitrotoluene	nd	818	phenanthrene	2
3/8	1,2-diphenylhydrazine (as azobenzene)	nd	82B	dibenzo(a,h)anthracene	n
39B	fluoranthene	nd	83B	indeno(1,2,3-cd)pyrene	n
——	4-chiorophenyl phenyl ether	nd	848	pyrene -	2

### PESTICIDE/HERBICIDE REPORT FORM

MW	·		#6 TD (C) 4 11	_
Sample ID			ES ID <u>82044</u>	<u> </u>
		Aliqu	not analyzed 1£	
Date Received 41-82		Detector Used:	Coulson, EC, Flame,	PIL
Date analyzed	Chemist	UB	Approved	
	Detection	n Limits (PPb)	Found (ppb)	
Aldrin				
Alpha BHC				
Beta BHC				
Delta BHC				
Gamma BHC (lindane)				
Chlordane	!			
DOD (TDE)	1			
DDE				
DOT				
Dieldrin				
Endosulfan I	•			
Endosulfan II				
Endosulfan sulfate				
Endrin				
Heptachlor				
Heptachlor epoxide				
Methoxychlor				
Toxaphene				
2,4,D				
2,4,5,T	0.00	٥١	0.009	
2,4,5 TP (Silvex)				
DBCP (Dibromochloro propane)				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### METALS REPORT FORM

Sample ID Mc Clellan AFB

Sample ID Mc Chellan AFB		3/00		ES ID <u>320447</u>		
		3/30		Aliquot analyzed		
Date Received	•	<b>-</b>		Method Used		
Date analyzed		Chemis	st	_ Approved		
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
Uminum		500	50			
Antimony	p,c	500	10	(0.005		
Arsenic	p,h,c,d,o		10	<0.05		
Barium.	h,c,d	1,000	5			
Beryllium	p,c,					
Cadmium _	p,h,c,d,o	5	0.1	0.01.		
Calcium		50				
Chromium (+3)	p,h,c,d,o	20	1 Etota	1 20.05		
Chromium (+6)	c		70)			
Cobelt		50	1			
Copper	p,c,d,o	20	1	<0.05		
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	0.022		
Lithium		50	490			
Magnesium		1	d=a			
Manganese	đ	10	0.5		. ~	
Mercury	p,h,c,d,o		0.5	0.0010		
Holybdenum	c	500	***			
Nickel	p,c,o	40	1	<0.05		
Potassium		10				
Selenium	p,h,c,d		10	<0.01	- · · · · · · · ·	
Silicon		10				

64/18

ES ID 320447

Element	Code	Detection Flame	Tlameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<0.05	
Sodium		10			
Thallium	p,c,				
Tin					· · · · · · · · · · · · · · · · · · ·
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.02	······································

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (918) 444-9802

CLIENT		Engineezing Science	CAL LAB N	0. <u>14428 - 9</u>
CLIENT		Well MN14		
		VOLATILES	<u>ug/L</u>	
	27	acrolein	NO	
	3٧	acrylonitrile	NO	
	4٧	benzene	*	
	_6V	carbon tetrachloride	N	
·	77	chlorobenzene	*	
	100	1,2-dichloroethane	NO	
	117	1,1,1-trichloroethane	8700	
•	137	1,1-dichloroethane	110	
	147	l,1,2-trichloroethane	NS	
	157	1,1,2,2-tetrachloroethane	ND	
	16V	chloroethane	40	
•	190	2-chloroethylvinyl ether	~	
	23V	chloroform	120	
	29 <b>V</b>	1,1-dichioroethylene	4600	
	30V	1,2-trans-dichloroethylene	130	
	32 <b>V</b>	1,2-dichloropropane	NO	
	33V	1,3-dichloropropylene	NO	
	38V	ethylbenzene		
,	444	methylene chloride	3000	
,	45V	methyl chloride	15	
	46V	methyl bromide	ıs	
	47V	bromoform	10	
	48V	dichlorobromomethane	<u>M)</u>	
	497	trichlorofluoromethane	<u> </u>	
	50 <b>V</b>	dichlorodifluoromethane	140	
	517	chlorodibromomethane	M)	
	85V	tetrachloroethylene	NO	
	867	toluene	50	*Less than 10 ug/
	877	trichloroethylene	5800	ND = Not detected
	887	vinyl chloride	10 25 pp	jb.,

5885 POWER ININ ROAD SACRAMENTO, CALIFORNIA 86824 (818) 281-6105 8113

CLIENT		agineering Science	CAL LAB NO	. <u>1505</u> .	2-4
CLIENT	1.D	Nell 14			
		MW	- 24		
	:	VOLATILES	ug/L		
	27	acrolein	nd		
	_3V	acrylonitrile	nd		
	4٧	benzene	nd		
	_6V	carbon tetrachloride	nd		
	_7V	chlorobenzene	nd		
	107	1,2-dichloroethane	nd		
	117	1,1,1-trichloroethane	2300		
	137	l,l-dichloroethane	1001		
	147	1,1,2-trichloroethane	nd		
	157	1,1,2,2-tetrachloroethane	nd		
	167	chloroethane	nd		
	197	2-chloroethylvinyl ether	nd		
	237	chloroform	* /		
	29V	1,1-dichloroethylene	170001		
	30V	1,2-trans-dichloroethylene	2001		
	32V	1,2-dichioropropane	nd		
	33V	1,3-dichloropropylene	nd		
	38V	ethylbenzene	nd		-
	447	methylene chloride	nd.		
	45V	methyl chloride	nd		<del></del>
	46V	methyl bromide	nd	•	
	477	bromoform	nd	·	
	487	dichlorobromomethane	nd		
	497	trichlorofluoromethane	nd		***
	50V	dichlorodifluoromethane	nd	** ******	
	517	chlorodibromomethane	nd		
	85V_	tetrachloroethylene	nd		· = · · · · · · · · · · · · · · · · · ·
	867	toluene	nd .	T Loce the	
	877	trichloroethylene	11,000 / NO		in <u>10 ug/L</u> tected
	887	vinyl chloride	nd		<del></del>
		1,1,2-trichloro-2,2,1-trifluoroethane			- · · · · · · · · · · · · · · · · · · ·

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

PRIC	ORITY POLLUTANT	DATA SHEET	_
CLIENT <u>Engineering</u> Science	,	CAL LAB NO. 14428-	<del></del>
ACID COMPOUNDS	ug/L	CLIENT I.D. We//#/ BASE/NEUTRAL COMPOUNDS	<u>4</u> μg/L
21A 2,4,6-trichlorophenol	ND	,	ND
22A p-chloro-m-cresol	ND	418 4-bromophenyl phenyl ether 428 bis(2-chlorofsopropyl)ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	528 bexachlorobutadiene	- ND
34A 2,4-dimethylphenol	19	53B hexachlorocyclopentadiene	- ND
57A 2-nitrophenol	ND	54B isophorone	·ND
58A 4-nitrophenol	ND	55B naphthalene	N
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-mitrosodimethylamine	NT
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A pheno1	*	63B , N-nitrosodi-n-propylamine	ND
<b>,</b>		66B bis(2-ethylhexyl)phthalate	11
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	ND
1B acenaphthene	ND	68B di-n-butyl phthalate	ND
5B benzidine	ND	69B di-n-octyl phthalate	ND
88 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
98 hexachlorobenzene	ND	71B dimethyl phthalate	ND
12B hexachloroethane	ND	728 benzo(a)anthracene	ND
188 bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
25B 1,2-dichlorobenzene	22	75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene	+	76B chrysene	ND
27B 1,4-dichlorobenzene	<del>:X</del> -	77B acenaphthylene	ND
288 3,3'-dichlorobenzidine	ND	788 anthracene	ND
358 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND
368 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1,2-diphenylhydrazine		818 phenanthrene	ND
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	<u>ND</u>
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
408 4-chtorophenyl phenyl ether	ND	848 pyrene	ND

5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (916) 381-5105 8/13

LIENT _	Engineering Science			CAL LAB NO. 15052-4	148
	ACID COMPOUNDS	ug/L	BAS	CLIENT I.D. <u>WE// /4</u> SE/NEUTRAL COMPOUNDS	vg/L
21A	2,4,6-trichlorophenol	nd	418	4-bromophenyl phenyl ether	nd
	p-chloro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	nd
	2-chlorophenol	nd	43B	bis(2-chloroethoxy)methane	rel
	2,4-dichlorophenol	nd	52B	bexachlorobutadiene	nd
	2,4-dimethylphenol	941	53B	hexachlorocyclopentadiene	nd
	2-nitrophenol	nd	54B	isophorone	nil
	4-nitrophenol	nd	558	naphthalene	*
	2,4-dinitrophenol	nd	56B	nitrobenzene	nd
	4,6-dinitro-o-cresol	nd	61B	N-nitrosodimethylamine	nel
64A	pentachlorophenol	nd	62B	N-nitrosodiphenylamine	_nd
65A	phenol	4001		N-nitrosodi-n-propylamine	rd
•			66B	bis(2-ethylhexyl)phthalate	nd
•	BASE/NEUTRAL COMPOUNDS		678	butyl benzyl phthalate	na
1B a	scenaphthene	a. d.	688	di-n-butyl phthalate	nd
	penzidine	nd	69B	di-n-octyl phthalate	nd
		nd,	70B	diethyl phthalate	nd
	1,2,4-trichlorobenzene	61	71B	dimethyl phthalate	vd
	nexachlorobenzene	nd	72B	benzo(a)anthracene	nd
	nexachloroethane	nd	738	benzo(a)pyrene	nd
	ois(2-chloroethyl)ether	nd	748	3,4-benzofluoranthene	nd
	2-chloronaphthalene	100	75B	benzo(k)fluoranthene	20
	1,2-dichlorobenzene	281	76B	chrysene	nd
	1,3-dichlorobenzene	401	778	acenaph thy lene	na
	1,4-dichlorobenzene 3,3'-dichlorobenzidine	,	788	anthracene	nd
		nd	79B	benzo(ghi)perylene	na
	2,4-dinitrotoluene	<u>nd</u>	808	fluorene	vd
	2,6-dinitrotoluene	nd	818	phenanthrene	no
	1,2-diphenylhydrazine (as azobenzene)	nd	828	dibenzo(a,h)anthracene	nd
	fluoranthene	nd	838	indeno(1,2,3-cd)pyrene	- Wil
· . —	4-chlorophenyl phenyl ether	nd	848	pyrene	nd

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well #14		ES ID 820448,
	Aliqu	not analyzed
Date Received 4/1-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist UB	Approved
	Detection Limits (PPb)	Found (ppb)
Aldrin	0.003	6.97
Alpha BHC		
Beta BHC		
Delta BHC		
Gamma BHC (lindane)		
Chlordane		
DDD (TDE)		
DDE		
DDT		
Dieldrin	_	
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Heptachlor		
Heptachlor epoxide		
Methoxychlor		
Toxaphene		
2,4,D		
2,4,5,T	0.001	0.005
2,4,5 TP (Silvex)		
DBCF (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### METALS REPORT FORM

Sample ID <u>McC</u> MW# 15		3/30	A	ES II liquot analyzed	820443
ate Received	1 April 1982		M	ethod Used	
Date analyzed	•	Chemist		Approved	
Element	Code	Detection L	imit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
atimony	p,c	500	10	LO.005	
rsenic	p,h,c,d,o	475-	10	<b>&lt;0.05</b>	
arium	h,c,d	1,000	5		·
eryllium	p,c,				
admium	p,h,c,d,o	5	0.1	<0.01	
alcium		50			
hromium (+3)	p,h,c,d,o	20	1)tota	1 0.09	
hromium (+6)	c	4/24	70)	sa demokra - Links	
obalt		50	1		
opper	p,c,d,o	20	1	<0.05	
lold .		100	1		
ron	đ	100	1		
ead	p,h,c,d,o	100	10	0.057	
ithium		50	***		
legnesium		1	400	- 4	
langanese	đ	10	0.5		
ercury	p,h,c,d,o		0.5	0.0011	
folybdenum	e	500	-		
ickel	p,c,o	40	1	0.05	
Potassium		10			and the same of the same of the same of the same of the same of the same of the same of the same of the same of
Selenium	p,h,c,d		10	<b>LO.01</b>	
Silicon		10			

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8/27/82

3-340

<b>81 4</b>	<b>0</b> . • .		n Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	∠0.05	
Sodium		10			
Thallium	p,c,				<del></del>
Tin					
Vanadium	c			<u> </u>	
Zinc	p,c,d,o	5	0.05	0.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		Engineering Science	CAL LAB NO
CLIENT I	I.D	mw 15'	
		VOLATILES	ug/l or ug/Kg
_	27	acrolein	
-	3V	acrylonitrile	ND.
_	4٧	benzene	680
_	6V	carbon tetrachloride	NO
_	<b>7V</b>	chlorobenzene	no
_	100	1,2-dichloroethane	M
	117	1,1,1-trichloroethane	2200
_	13V	1,1-dichloroethane	225
	14V	1,1,2-trichloroethane	
	15V	1,1,2,2-tetrachloroethane	
	164	chloroethane	no
	197	2-chloroethylvinyl ether	
	23V	chloroform	20
_	29 <b>V</b>	1,1-dichloroethylene	5980
_	30V	1,2-trans-dichloroethylene	135
_	32 <b>V</b>	1,2-dichloropropane	110
	33V	1,3-dichloropropylene	ND
_	38V	ethylbenzene	
_	447	methylene chloride	5000
_	45V	methyl chloride	
_	46V	methyl bromide	NO
_	474	bromoform	ND
_	487	dichlorobromome. nane	\$ND
	49V	trichlorofluoromethane	
	50V	dichlorodifluoromethane	
-	514	chlorodibromomethane	
_	85V	tetrachloroethylene	<u>M)</u>
-	86V	toluene	
-	87 <b>Y</b>	trichloroethylene	2800 ND = Not detected
•	88V	vinyl chloride	po.

5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-6105 . 8/13

	Engin		CAL LAB	NO. <u>/5⁰⁵²⁻⁵</u>
CLIENT	I.D	Wellm45		
	:·	VOLATILES	ug/L	
	27	acrolein	nd	
	3٧	acrylonitrile	nd	
	4٧	benzene	101	<b>,</b>
	6V	carbon tetrachloride	nol	
	79	chlorobenzene	nd	
	100	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	2500-	
	13V	1,1-dichloroethane	200	/
	14V	1,1,2-trichloroethane	nd	
	15V	1,1,2,2-tetrachloroethane	nd	
	16V	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
		chloroform	401	,
	297	1,1-dichloroethylene	96001	
	30V	1,2-trans-dichloroethylene	1101	
	32V	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	
		ethylbenzene	nd	
	447	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	
	477	bromoform	nd	·
	48V	dichlorobromomethane	nd	
	49V	trichlorofluoromethane	nd	* * * *
	50V	dichlorodifluoromethane	nd	•
	517	chlorodibromomethane	nd	•
	85V	tetrachloroethylene	nd	
	867	toluene	nd	* = Less than 10 ug/L
	877	trichloroethylene	3000	ND = Not detected
	V88	vinyl chloride	*	
		1,1,2-trichloro-2,2,1-trifluoroethane		

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

LIENT _	Engineering Science		CAL LAB NO. 14556 -3
	ACID COMPOUNDS	μ <b>g/L</b>	CLIENT I.D. MW 15  BASE/NEUTRAL COMPOUNDS µg/L
21A	2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether ND
22A	p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether MD
	2-chlorophenol	ND	
	2,4-dichlorophenol	ND	438 bis(2-chloroethoxy)methane ND 528 bexachlorobutadiene ND
	2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene ND
57A	2-ni trophenol	ND	548 isophorone ND
58A	4-nitrophenol	ND	558 naphthalene ND
	2,4-dinitrophenol	ND	568 nitrobenzene ND
60A	4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine
64A	pentachlorophenol	ND	62B N-nitrosodiphenylamine
65A	phenol	ND	63B .N-nitrosodi-n-propylamine
<del></del>			66B bis(2-ethylhexyl)phthalate ND
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate $\sqrt{l}$
1B a	acenaphthene		688 di-n-butyl phthalate $\widehat{N}$
	benzi di ne	ND	698 di-n-octyl phthalate
	1,2,4-trichlorobenzene	ND	708 diethyl phthalate $\widehat{N}$
	hexach1orobenzene	$\mathcal{M}$	71B dimethyl phthalate 📝
	hexach l oroethane	N)	728 benzo(a)anthracene (V) 738 benzo(a)pyrene (V)
	bis(2-chloroethyl)ether	MD	73B benzo(a)pyrene 🕥
	2-chloronaphthalene	M	74B 3,4-benzofluoranthene
	1,2-dichlorobenzene	MD	758 benzo(k)fluoranthene 🕡
	1,3-dichlorobenzene	ND	76B chrysene N
	1,4-dichlorobenzene	ND	778 acenaphthylene N
	3,3'-dichlorobenzidine		78B anthracene ND
	2,4-dinitrotoluene	N)	79B benzo(ghi)perylene 🕡
	2,6-dinitrotoluene		80B fluorene /VI
	1.2-diphenylhydrazine		81B phenanthrene $\mathcal{N}_{I}$
	(as azobenzene)	$\mathcal{N}\mathcal{D}$	82B dibenzo(a,h)anthracene
398	fluoranthene	$\mathcal{A}\mathcal{D}$	83B indeno(1,2,3-cd)pyrene
40B	4-chlorophenyl phenyl ether	M	848 pyrene $\widehat{\mathcal{M}}$

#### 5895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

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ENT <u>Engineering</u> Science	)		CAL LAB NO. <u>/5052</u>	5- nn, -
ACID COMPOUNDS	ug/L	RΔ·	CLIENT I.D. Weil's SE/NEUTRAL COMPOUNDS	<i>F/3 ^</i> .:g/L
<del></del>	μ9/ Ε			l·g/ L
21A 2,4,6-trichlorophenol	nd	41B	4-bromophenyl phenyl ether	200
22A p-chloro-m-cresol	na	42B	bis(2-chloroisopropyl)ether	20
24A 2-chlorophenol	nd	43B	bis(2-chloroethoxy)methane	no
31A 2,4-dichlorophenol	<u>nd</u>	<u>528</u>	bexachlorobutadiene	na
34A 2,4-dimethylphenol	nd	<u>538</u>	hexachlorocyclopentadiene	n
57A 2-nitrophenol	nd	54B	isophorone	no
58A 4-nitrophenol	nd	55B	naphthalene	n
59A 2,4-dinitrophenol	nd	56B	nitrobenzene	n
60A 4,6-dinitro-o-cresol	nd	61B	N-nitrosodimethylamine	no
64A pentachlorophenol	nd	62B	N-nitrosodiphenylamine	7
65A phenol	nd	63B	N-nitrosodi-n-propylamine	n
		66B	bis(2-ethylhexyl)phthalate	n
BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	n
IB acenaphthene	nd	688	di-n-butyl phthalate	n
5B benzidine	nd	<u>698</u>	di-n-octyl phthalate	$\mathcal{M}$
8B 1,2,4-trichlorobenzene	nd	70B	diethyl phthalate	n
9B hexachlorobenzene	nd	71B	dimethyl phthalate	M
12B hexachloroethane	nd	<b>728</b>	benzo(a)anthracene	n
18B bis(2-chloroethyl)ether	nd	738	benzo(a)pyrene	n
20B 2-chloronaphthalene	nd	<u>748</u>	3,4-benzofluoranthene	W
258 1,2-dichlorobenzene	501	<u>758</u>	benzo(k)fluoranthene	$\mathcal{U}$
26B 1,3-dichlorobenzene	8	76B	chrysene	n
278 1,4-dichlorobenzene	12'	77B	acenaphthylene	71
288 3,3'-dichlorobenzidine	nd	78B	anthracene	<u> </u>
35B 2,4-dinitrotoluene	nd	79B	benzo(ghi)perylene	2
36B 2,6-dinitrotoluene	nd	80B	fluorene	1
37B 1,2-diphenylhydrazine		818	phenanthrene	n
(as azobenzene)	nd	82R	dibenzo(a,h)anthracene	. 7
398 fluoranthene	nd	83B	indeno(1,2,3-cd)pyrene	N
40B 4-chlorophenyl phenyl ether	nd	848	pyrene.	no

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID MUL 15		ES ID For 1-27				
	Aliquot analyzed 11.					
Date Received 4/20-82	Detector Used:	Coulson, EC, Flame, PID				
Date analyzed	Chemist LIB	Approved				
	Detection Limits (ppb)	Found (ppb)				
Aldrin	c. cc3					
Alpha BHC	0.002					
Beta BHC	0.004					
Delta BHC	C:004					
Gamma BHC (lindane)	0.002					
Chlordane	0.04					
DDD (TDE)	C.012					
DDE	0.006					
DDT	e cil					
Dieldrin	5.886					
Endosylfan I	c.cc5					
Endosulfan II	0.61					
Endosulfan sulfate	0.03					
Endrin	0.009					
Heptachlor	c.ccz					
Heptachlor epoxide	0.664					
Methoxychlor	0.62					
Toxaphene	C.40					
2,4,D	0.001	C.L2				
2,4,5,T	0001					
2,4,5 TP (Silvex)	0.002	0.36				
DBCP (Dibromochloro propane)						

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### METALS REPORT FORM

MW#15  Date Received 29 April 1982		3/30		ES 10 0027		_
		•		Aliquot analyzed		
				Method Used		
ete analyzed		Chemis	·	_ Approved		-
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
Uminum		500	50			<b></b>
Intimony	p,c	500	10	0.006		
Arsenic	p,h,c,d,o	-	10	40.05	<u>.</u>	_
Barium	h,c,d	1,000	5			<del>_</del> 
Beryllium	p,c,					_
Cadmium	p,h,c,d,o	5	0.1	0.012		
Calcium		50				
Chromium (+3)	p,h,c,d,o	20	1 }tota	al <0.05		
Chromium (+6)	c		(ەد			
Cobalt		50	1			_
Copper	p,c,d,o	20	1	40.05		_
Gold		100	1			<b>-</b>
Iron	d	100	1			_
Lead	p,h,c,d,o	100	10	<0.01		_ • •••
Lithium		50	-			
Magnesium		1				-
Manganese	đ	10	0.5			<b>-</b>
Mercury	p,h,c,d,o		0.5	40.0005		
Molybdenus	С	500			, e um seu	
Nickel	p,c,o	40	1	0.07		
Potassium		10				
Selenium	p,h,c,d		10	40.01		
Silicon		10	***			

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8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<0.05	
Sodium	<b>P</b> ,, <b>o</b> ,o,o	10		20.05	<del></del>
Thallium	p,c,	···			
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<0.05	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

APPENDIX L

ANALYTICAL DATA
STAGE I MONITORING WELLS

STAGE I SHALLOW WELLS

#### 5866 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-6105 __-

CLIENT		ering Science	CAL LAB	NO. <u>/4772-6</u>
	· -	VOLATILES	ug/L	
			_	
	_2V	acrolein	ND	
	37	acrylonitrile	ND_	
	4٧	benzene	nd	
	_6V	carbon tetrachloride	nd_	
	<u>7V</u>	chlorobenzene	nd	
	_10 <b>v</b>	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd	
	13V	1,1-dichloroethane	nd	•
	147	1,1,2-trichloroethane	nd	
	15V	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd.	
	197	2-chloroethylvinyl ether	and.	
	23V	chloroform	nd	
	297	1,1-dichloroethylene	na	•
•	30V	1,2-trans-dichloroethylene	nd	
	327	1,2-dichloropropane	nd	
	337	1,3-dichloropropylene	-nd	
	38V	ethylbenzene	$\overline{}$	•
	447	methylene chloride	nd	•
	45V	methyl chloride		•
	46V	methyl bromide	nd	
	47V	bromoform	<u>na</u>	· · · · · · · · · · · · · · · · · · ·
	48V	dichlorobromomethane	nd-	
		trichlorofluoromethane	nd	
	497		nd	er en en en en en en en en en en en en en
	_50V	dichlorodifluoromethane	_nd	
	<u>51v</u>	chlorodibromomethane	nd.	
	<u>85V</u>	tetrachloroethylene	nd	a Para de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración
	<u>86V</u>	toluene	_nd	* = Less than 10 ug/L
	<u>87V</u>	trichloroethylene	nd	ND = Not detected
	<u>88V</u>	vinyl chloride	nd	
		1,1,2-trichloro-2,2,1-trifluoroethane	nd	

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S865 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-5105 .

### PRIORITY POLLUTANT DATA SHEET

CLIENT Engineering Science CAL LAB NO. 15052-6

CLIENT I.D. Well 165

	VOLATILES	<u>ug/L</u>
27	acrolein	nd
3٧	acrylonitrile	nd
47	benzene	nil
6V	carbon tetrachloride	nd
78	chlorobenzene	nd.
100	1,2-dichloroethane	nd
117	1,1,1-trichloroethane	na'-
137	1,1-dichloroethane	nd
<b>14</b> V	1,1,2-trichloroethane	nd
15V	1,1,2,2-tetrachloroethane	nd
16V	chloroethane	nd
190	2-chloroethylvinyl ether	nd
23V	chloroform	nd
29V	1,1-dichloroethylene	10
30V	1,2-trans-dichloroethylene	nd
32V	1,2-dichloropropane	nd
33V	1,3-dichloropropylene	nd
38V	ethylbenzene	nd
447	methylene chloride	nd
45V	methyl chloride	nd
467	methyl bromide	nd
47V	bromoform	nd
487	dichlorobromomethane	nd
49V `	trichlorofluoromethane	nd
50V	dichlorodifluoromethane	nd
517	chlorodibromomethane	nd
85V	tetrachloroethylene	nd
86V	toluene	712 * = 1 ess than 10 un/1
877	trichloroethylene	/O /ND = Not detected
88V	vinyl chloride	nd
	1,1,2-trichloro-2,2,1-t-ifluoroethane	

401 MORTH 18IN STREET SACRAMENTO, CALIFORNIA 95814 (816) 444-8802

	PRIORITY	POLLUTANT	DATA SHEET JOS	<del>-</del>
NT	Engineering Science	,	CAL LAB NO	-6
_			CLIENT I.D.MW/65	·
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A	2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd
22A	p-chloro-m-cresol	nd	428 bis(2-chloroisopropy1)ether	nd
24A	2-chlorophenol	nd	438 bis(2-chloroethoxy)methene	nd
31A	2,4-dichlorophenol	nd	528 bexachlorobutadiene	nd
34A	2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd
57A	2-n1trophenol	nde	548 isophorone	nd
58A	4-n1trophenol	nd	558 naphthalene	nd
59A	2,4-dinitrophenol	nd	56B nitrobenzene	nd
60A	4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	nd
54A		nd	628 M-nitrosodiphenylamine	nd
65A	pheno)	nd	638 N-nitrosodi-n-propylamine	nd
		-	66B bis(2-ethylhexyl)phthelate	nd
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	na
18	acenaphthene	nd	688 di-n-butyl phthelate	nd
58	benzidine	nd	698 di-n-octyl phthalate	nd
	1,2,4-trichlorobenzene	nd	708 diethyl phthalate	nd
98		nd	718 dimethyl phthalate	nd
	hexachlorobenzene		72B benzo(a)anthracene	na
	hexach lorge thane	nd	738 benzo(a)pyrene	na
	bis (2-chloroethyl)ether	<u>nd</u>	748 3,4-benzofluoranthene	na
	2-chlereneshthelene	nd	75B benzo(k)fluoranthene '	ma
7 2-4	1,2-dichlorebenzene	nd	768 chrysene	na
	1,3-dichlorobenzene	nd	77B acenaphthylene	M
_	1,4-dichiorobenzene	<u>nd</u>	788 anthracene	-na
	-3,3'-dichlorobenzidine	nd	798 benza(ght)perylene	na
	2.4-dinitrotoluene	nd	80B fluorene	-n
	2,6-dinitrotoluene	nd	818 phenanthrene	no
371	5-1-2-diphonylhydrazine (as azobenzene)	nd	828 dibenzo(a,h)anthracene	no
301	B_fluoranthene	nd	838 indeno(1,2,3-cd)pyrene	n
	8 4-chlorophenyl phenyl ether	nd	848 pyrene	na

5806 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (816) 381-5105

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IENT <u>Engineering</u> Science		CAL LAB NO. 15052-6
<i>y</i>		CLIENT I.D. <u>Well 165</u>
ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS rg/L
21A 2,4,6-trichlorophenol	_nd	418 4-bromophenyl phenyl ether 7100
22A p-chloro-m-cresol	nd	428 bis(2-chloroisopropy1)ether nd.
24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane MC
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene $n\alpha$
34A 2,4-dimethylphenol	hd	53B hexachlorocyclopentadiene nd
57A 2-nitrophenol	ud	54B isophorone nd
58A 4-nitrophenol	nd	55B naphthalene nd
59A 2,4-dinitrophenol	nd	56B nitrobenzene Nil
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine nd
64A pentachlorophenol	nd	62B N-nitrosodiphenylamine nd
65A pheno1	nd	63B N-nitrosodi-n-propylamine nd
•		66B bis(2-ethylhexyl)phthalate Md
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate nd
1B acenaphthene	_ nd	688 di-n-butyl phthalate $\gamma \alpha$
5B benzidine	nd	69B di-n-octyl phthalate nd
8B 1,2,4-trichlorobenzene	nd	708 diethyl phthalate nd
98 hexachlorobenzene	nd	718 dimethyl phthalate nd
12B hexachloroethane	nd	728 benzo(a)anthracene nd
18B bis(2-chloroethyl)ether	nd	738 benzo(a)pyrene nd
20B 2-chloronaphthalene	nd	748 3,4-benzofluoranthene nd
258 1,2-dichlorobenzene	nd	75B benzo(k)fluoranthene nd
268 1,3-dichlorobenzene	nd	768 chrysene nd
27B 1,4-dichlorobenzene	nd	77B acenaphthylene nd
28B 3,3'-dichlorobenzidine	nd	788 anthracene nd
35B 2,4-dinitrotoluene	nd	798 benzo(ghi)perylene nd
36B 2.6-dinitrotoluene	nd	80B fluorene nd
37B 1,2-diphenylhydrazine		81B phenanthrene nd
(as azobenzene)	nd	828 dibenzo(a,h)anthracene nd
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene
408 4-chlorophenyl phenyl ether	<u>nd</u>	84B pyrene 7

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID		ES ID <u>820799</u>		
61.6-82	Aliquot analyzed			
Date Received 124-62	Detector Used: Coulson, EC, Flame, PID			
Date analyzed	Chemist LIB	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	c. cc3	0.503		
Alpha BHC	0.002			
Beta BHC	0.004	C.14Z		
Delta BHC	D-004			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DDD (TDE)	0.012			
DDE	0.606			
DDT	c.016			
Dieldrin	C.006			
Endosulfan I	0.005			
Endosulfan II	0.01			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	C.00Z			
Heptachlor epoxide	0.004			
Methoxychlor	0.62			
Toxaphene	C.40			
2,4,D	0.001	0.056		
2,4,5,T	0.001	0.020		
2,4,5 TP (Silvex)	0.002	C.094		
DBCP (Dibromochloro propane)				
	<del></del>			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID <u>MªClellan AFB</u>		es 10 820949			
Nell # 165	Aliquot analyzed 12.				
Date Received 18 August 1982	Detector Used:	Coulson, EC Flame, PID			
Date analyzed Z7 Aug 82	Chemist HF	Approved			
/	Detection Limits(PPb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	9,002	0.024			
Beta BHC	0.004	0.009			
Delta BHC	0.004	0.025			
Gamma BHC (lindane)	0.002	0.020			
Chlordane	0.04				
DDD (TDE)	0.012				
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005				
Endosulfan II	0.01				
Endosulfan sulfate	0.03	40.03			
Endrin	0.009				
Heptachlor	0.002	0.015			
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	0.40				
2,4,D	0.001				
2, 4, 5, T	0.001				
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)					

ENGINEERING-SCIENCE - BERKELEY LABORATORY

no identitiable herbicides

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	ES ID <u>820949</u>				
MW #165	Aliqu	not Analyzed /L			
Date Received 18 August 1982 Date Analyzed 27 August 1982	Detector Used:	EC. Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

MW# 16			A	liquot analyzed	<del></del>
Date Received				sthod Used	
Date analyzed		Chemis		Approved	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.008	
Arsenic	p,h,c,d,o		10	40.05	
Barius	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Galcium .		50			
Chromium (+3)	p,h,c,d,o	20	1 }tota	./ <0.05	
Chromium (+6)	c		70)		<del></del>
Cobalt		50	1		
Copper	p,c,d,a	20 -	1	40.05	
Gold		100	1		
Iron	d	100	l		
Lead	p,h,c,d,o	100	10	<b>L0.01</b>	
Lithium		50			
Magnesium		1	45	- ··	
Manganese-	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0027	
Molybdenum	c	500			
Nickel	p,c,o	40	1	La.05	
Potassium		10			
Selenium	p,h,c,d		10	40.01	
Silicon		10			· · · · · · · · · · · · · · · · · · ·

64/18

8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	c			gr.com	.~
Zinc	p,c,d,o	5	0.05	(0.02)	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste d - EPA drinking water

o - Ocean waters of California

#### 5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 96824 (918) 391-6105

#### PRIORITY POLLUTANT DATA SHEET

Engineering CAL LAB NO. 14772-5 RUMCE CLIENT CLIENT I.D. VOLATILES ug/L acrolein **2**¥ acrylonitrile 37 benzene 44 nd. carbon tetrachloride 67 chlorobenzene **7**¥ 1,2-dichloroethane 107 117 1.1.1-trichloroethane na 1.1-dichloroethane 137 md 1.1.2-trichloroethane 147 <u>and</u> 1,1,2,2-tetrachloroethane 15V nd chloroethane 164 nd 2-chloroethylvinyl ether 198 nd chloroform 237 nd **29**V 1,1-dichloroethylene nd 1,2-trans-dichloroethylene **30V** nd. 1,2-dichloropropane **32V** na 1,3-dichloropropylene 337 **38**V ethylbenzene methylene chloride 444 nd methyl chloride 45V nd. methyl bromide **46V** nd. **47V** bromoform nd 487 dichlorobromomethane nd trichlorofluoromethane 491 dichlorodifluoromethane **50V** nd chlorodibromomethane 517 tetrachloroethylene **85V** toluene 86V = Less than 10 ug/L. ND = Not detected trichloroethylene 87V na vinyl chloride **88**V 1,1,2-trichloro-2,2,1-trifluoroethane

A4.75

8/17

5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 M181 281-6105

#### PRIORITY POLLUTANT DATA SHEET

_ CAL LAB NO. <u>15052-8</u> CLIENT <u>Engineering</u> Science CLIENT I.D. ug/L VOLATILES nd acrolein acrylonitrile nd 34 nd benzene carbon tetrachloride nd-**6V** chlorobenzene 74 nd 1.2-dichloroethane 107 nil. 1.1.1-trichloroethane 117 nd 1.1-dichloroethane 134 nd 1.1.2-trichloroethane nd 147 1,1,2,2-tetrachloroethane 157 nd chloroethane nd 167 2-chloroethylvinyl ether 197 nd chloroform nd **23V** 1,1-dichloroethylene 297 nd 1,2-trans-dichloroethylene **30V** nd 1,2-dichloropropane nd **32**V 1,3-dichloropropylene **33V** nd ethylbenzene **38**V methylene chloride 447 methyl chloride 457 nd methyl bromide 46V 478 bromoform nd

dichlorobromomethane

chlorodibromomethane

tetrachloroethylene

trichloroethylene

vinyl chloride

toluene

trichlorofluoromethane

dichlorodifluoromethane

1,1,2-trichloro-2,2,1-trifluoroethane

487

49V 50V

517

85V 86V

877

**88**V

nd * = Less than 10 ug/L nd ND = Not detected

nd

nd

na

401 MORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

ÑT _	Engineering Science		CAL LAB NO. 14772 - CLIENT I.D. MW17	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A	2,4,6-trichlerophenol	nd	418 4-bromophenyl phenyl ether	nd
22A	p-chloro-m-cresol	nd	428 bis(2-chloroisopropy1)ether	nd
24A	2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd
31A	2,4-dichlorophenol	nd	528 bexachlorobutadiene	na
34A	2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	no
57A	2-ni trophenol	nd	54B isophorone	200
58A	4-n1 trophenol	nd	55B naphthalene	na
59A	2,4-dinitrophenol	nd	56B nitrobenzene	nd
60A		nd	61B N-nitrosodimethylamine	na
54A	pentach1grogheno1	nd	628 N-nitrosodiphenylamine	na
65A	pheno1	nd	63B .N-nitrosodi-n-propylamine	no
			668 bis(2-ethylhexyl)phthalate	_2
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	
, <b>g</b>	acenephthene	nd	688 di-n-butyl phthalate	n
58	benzidine	nd	698 di-n-octyl phthelate	n
	1,2,4-trichlorobenzene	nd	708 diethyl phthalate	n
	hexach1orobenzene	nd	71B dimethyl phthalate	
	hexach lorge thans	nd	728 benzo(a)anthracene	- M
	bis (2-chloreethyl) ether	nd	738 benzo(a)pyrene 748 3,4-benzofluoranthene	_n
	2-chlorenechthelene	nd	748 3,4-benzofluorenthene 758 benzo(k)fluorenthene '	n
	1,2-dichlorabanzene	nd	768 chrysene	
	1,3-d1chlorobenzene	nd	77B acenaphthylene	
	1,4-dichlorobenzene	nd	788 anthracene	- t
	3,31-dichlorobenzidine	nd	798 benzo(ght)perylene	~~~
	2-4-dinitrataluene	nd	808 fluorene	
	-2.6-dinitrotoluene	nd	818 phenanthrene	1
378		nd		1 2
200 	(as expensed)  [ fluoranthene	nd	838 indeno(1,2,3-cd)pyrene	v
—:囚	V. I VERY SELLENGE		000	- 6

#### 5665 POWER INN ROAD SACRAMENTO, CALIFORNIA 95624 (916) 381-5105

0/17

ENT	Engineering Science		CAL LAB NO. 15052-8	<del></del> .
- <del>-</del>			CLIENT I.D. Well 175	
	ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	1·9/L
21A 2	,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	nd
22A p	-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	21/1
24A 2	-chlorophenol	nd	43B bis(2-chloroethoxy)methane	203
31A 2	,4-dichlorophenol	nd	52B bexachlorobutadiene	nel
34A 2	,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	na
57A 2	-nitrophenol	nd	54B isophorone	na
58A 4	-nitrophenol	nd	55B naphthalene	20
59A 2	,4-dinitrophenol	nd	56B nitrobenzene	no
60A 4	,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	no
64A p	pentachlorophenol	nd.	62B N-nitrosodiphenylamine	_2.
65A r	phenol	nd	63B .N-nitrosodi-n-propylamine	2
			66B bis(2-ethylhexyl)phthalate	22
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	20
18 ac	enaphthene	_rd	68B di-n-butyl phthalate	20
	enzidine	nd	69B di-n-octyl phthalate	no
	,2,4-trichlorobenzene	nd	708 diethyl phthalate	70
	exachlorobenzene	nd	718 dimethyl phthalate	no
	exachloroethane	nd	72B benzo(a)anthracene	20
	is(2-chloroethyl)ether	nd	738 benzo(a)pyrene	no
	-chloronaphthalene	nd	74B 3,4-benzofluoranthene	no
. ——	,2-dichlorobenzene	nd	75B benzo(k)fluoranthene	n
	,3-dichlorobenzene	nd	76B chrysene	no
	,4-dichlorobenzene	nd	778 acenaphthylene	n
	,3'-dichlorobenzidine	nd	788 anthracene	2
	,4-dinitratoluene	nd	798 benzo(ghi)perylene	no
. — — —	,6-dinitrotoluene	nd	80B fluorene	216
<del></del>	,2-diphenylhydrazine		818 phenanthrene	n
	as azobenzene)	nd	82R dibenzo(a,h)anthracene	· - 1
398 f	Tuoranthene	nd	83B indeno(1,2,3-cd)pyrene	~ N
-40B-4	-chlorophenyl phenyl ether	nd	84B pyrene	2

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID 175	•••	ES ID <u>ECCE CI</u>
		not analyzed
Date Received 6/24-82.	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist <u>UB</u>	%pproved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	C.112
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	<i>5</i> -004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	C.012	
DDE	0.606	
DDT	c 016	
Dieldrin	. C.086	
Endosulfan I	¢.co5	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	-
Endrin	c.cc9	
Heptachlor	c.ocz	
Heptachlor epoxide	0.004	
Methoxychlor	0.62	
Toxaphene	C.40	
2,4,D	0.001	0.114
2,4,5,T	0.001	_0.031
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

9-3-68

500

### PESTICIDE/HERBICIDE REPORT FORM

sample ID MªClellan AFB		ES 10 820951
Well # 175	Aliqu	ot analyzed
Date Received 18 August 1962	Detector Used:	Coulson EC, Flame, PID
Date analyzed 31 Aug 82	Chemist #F	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DDE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2, 4, 5, T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	ES ID 820951				
MW #175	Aliq	uot Analyzed //			
Date Received 18 August 1982  Date Analyzed 31 August 1982	Detector Used Chemist HF	EC Coulson, Flame, PII			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242	·				
Aroclor 1248					
Aroclor 1254		·			
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Sample ID McCk					820801
MW # /				Uliquot analyzed	
Date analyzed		Chemist			
		Detection	Limit (ppb)	- <u></u>	
Element.	Code	Flame	Flameless	Detected project	Limit
Luninum		500	50	. <u>.</u>	
Antimony	p,c	500	10	0.011	
Arsenic	p,h,c,d,o		10	<b>L0.05</b>	
Barius	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5 -	0.1	<b>40.01</b>	
Calcium		50		· · · · · · · · · · · · · · · · · · ·	
Chromium (+3)	p,h,c,d,o	20	1 Zeot	el <0.05	
Chromium. (+6)	C ·		70		
Cobalt		. 50	1		
Copper	p,c,d,o	20'	1	<b>&lt;0.05</b>	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>40.01</b>	
Lithium		50			
Magnesium		1	***		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o	<del></del>	0.5	0.0012	
Molybdenus	E	500			• • • • • • • • • • • • • • • • • • •
Mickel	p,c,o	40	1	<0.05	
Potassium		10	•		
Selenium	p,h,c,d		10	(0.01	
Silicon		10			

8/27/82

9-711

64/18

Element	Code	Detection Flame	r Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	•
Sodium		10			
Thallium	p,c,			·	
Tia					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<0.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste d - EPA drinking water o - Ocean waters of California

6/16/82 sanpu

# California Analytical Laboratories, Inc.

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-6602

#### PRIORITY POLLUTANT DATA SHEET

CLIENT	En	gineering Science	CAL LAB	NO. 14772-2
CLIENT	1.D	MW 185		
		VOLATILES	ug/L	
	2 <b>V</b>	acrolein	nd	•
	37	acrylonitrile	nd	
,	4٧	benzene	nd	
•	6 <b>V</b>	carbon tetrachloride	nd	
	77	chlorobenzene	nd	
	107	1,2-dichloroethane	nd	
•	117	1,1,1-trichloroethane	nd	
	13V	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	15V	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd	
	29V	1,1-dichloroethylene	nd	
	30V	1,2-trans-dichloroethylene	nd	•
	32V	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	
	38V	ethylbenzene	nd	
	.447	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	
	47V	bromoform	nd	
	487	dichlorobromomethane	nd	and the second
	497	trichlorofluoromethane	nd	
	50V	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra
	85V	tetrachloroethylene	nd	and which the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second of the same is a second
	867	toluene	nd	* = Less than 10 ug/L
	877	trichloroethylene	nd	ND = Not detected
	88V	vinyl chloride	nd	
		1,1,2-trichloro-2,2,1-trifluoroethane		- · · · · · · · · · · · · · · · · · · ·

A CONTRACTOR



5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (\$18) 381-5105 .

#### PRIORITY POLLUTANT DATA SHEET

CLIENT Engineering Science CAL LAB NO. 15052-10

CLIENT I.D. 185

:	VOLATILES	ug/L	
_2V	acrolein	_nd	
3٧	acrylonitrile	nd	
4V	benzene	nd	
6V	carbon tetrachloride	nd	
_7V	chlorobenzene	nd	
107	1,2-dichloroethane	nd	
117	1,1,1-trichloroethane	nd	
137	1,1-dichloroethane	nd	
147	1,1,2-trichloroethane	nd	
150	1,1,2,2-tetrachloroethane	nd	
167	chloroethane	nd	
197	2-chloroethylvinyl ether	nd	
237	chloroform	nd	
29٧	1,1-dichloroethylene_	nd	
30V	1,2-trans-dichloroethylene	nd	
32V	1,2-dichloropropane	nd	
33V	1,3-dichloropropylene	nd	
38V	ethylbenzene	nd	
447	methylene chloride	nd	
45V	methyl chloride	nd	
46V	methyl bromide	nd	
47V	bromoform	nd	
487	dichlorobromomethane	nd	
49V	trichlorofluoromethane	nd	
50V	dichlorodifluoromethane	nd	
517	chlorodibromomethane	nd	• • • •
85V	tetrachloroethylene	711	
867	toluene	nd	* = Less
87V	trichloroethylene	nd	ND = Not
88V	vinyl chloride	nel	
	1.1.2-trichloro-2.2.1-trifluoroethane		

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

### PRIORITY POLLUTANT DATA SHEET

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T Engineering Science		CAL LAB NO. 1477-2-	
ACID COMPOUNDS	µg/L	CLIENT I.D. MUIS BASE/NEUTRAL COMPOUNDS	υ <b>g/L</b>
			nd
1A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd
2A p-chloro-a-cresol	nd	428 bis (2-chloroisopropyl)ether	
4A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd
11A 2.4-dichlorophenol	nd	528 bexachlorobutadiene	nd
14A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd
57A 2-nitrophenol	nd nd	54B isophorone	nd
58A 4-nitrophenol 59A 2,4-dinitrophenol	nd	55B naphthalene 56B nitrobenzene	nd
60A 4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	nd
		628 N-nitrosodiphenylamine	nd
64A pentachlorophenol 65A phenol	nd nd	63B .N-nitrosodi-n-propylemine	na
OSA MIGHUI	7:0-	668 bis(2-ethylhexyl)phthalate	na
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	na
		688 di-n-butyl phthalate	na
8 acenaphthene	Nd	'698 di-n-octyl phthelate	no
58 benzidine	nd-	70B diethyl phthalate	no
88 1,2,4-trichlorobenzene	<u>nd</u>	71B dimethyl phthalate	no
98 hexachlorobenzene	<u>nd</u>	728 benzo(a)anthracene	na
128 hexachlorgethene	<u>nd</u>	738 benzo(a)pyrene	n
188 bis(2-chloroethyl)ether	nd	748 3,4-benzofluoranthene	n
20B 2-chloronaphthaiene	nd	75B benzo(k)fluoranthene '	·n
258 1,2-dichlorobenzene	nd	76B chrysene	N
26B 1,3-dichlorobenzene	nd 11 d	778 acenaphthylene	n
278 1,4-dichlorobenzene	nd	788 anthracene	u
288 3,3'-dichlorobenzidine	nd and	798 benzo(ght)perylene	u
358 2.4-dinitrotoluene	nd and	808 fluarene	- 11
36B 2,6-dinitrotoluene	nd	818 phenanthrene	·U
37B 1,2-diphenylhydrazine (as azobenzene)	nd	828 dibenzo(a,h)anthracene	n
398 flyoranthene	nd	83B indeno(1,2,3-cd)pyrene	7
408 4-chlorophenyl phenyl ether	nd	84B pyrene	u

***5.F5****

5866 FOWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

8/16

		POLLOTAIN D		
LIENT _	Engineering Science		CAL LAB NO. 15052-11)	
	ACID COMPOUNDS	μg/L	CLIENT I.D. WeiHES V BASE/NEUTRAL COMPOUNDS 19/1	L
21A	2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	na
22A	p-chloro-m-cresol	nd		no
24A	2-chlorophenol	nd		nci
31A	2,4-dichlorophenol	nd		nc
34A	2,4-dimethylphenol	nd	· · · · · · · · · · · · · · · · · · ·	n
57A	2-nitrophenol	nd	· · · · · · · · · · · · · · · · · · ·	no
58A	4-nitrophenol	nd		n
59A	2,4-dinitrophenol	nd		7
60A	4,6-dinitro-o-cresol	nd	· · · · · · · · · · · · · ·	7U
64A	pentachlorophenol	61	/ · · · · · · · · · · · · · · · · · · ·	710
65A	phenol	nd	63B .N-nitrosodi-n-propylamine 7	no
			66B bis(2-ethylhexyl)phthalate	no 8
	BASE/NEUTRAL COMPOUNDS			na
18	acenaphthene	71		no
58	benzidine	na nd		126
	1,2,4-trichlorobenzene	nd		n
	hexachlorobenzene	nd	- —	ra
	hexachloroethane	nd.		74
	bis(2-chloroethyl)ether	nd		n,
	2-chloronaphthalene	nd		nc
-	1,2-dichlorobenzene	nd		no
	1,3-dichlorobenzene	nd	768 chrysene ?	nu
	1,4-dichlorobenzene	nd		Ų
	3,3'-dichlorobenzidine	nd		W
	2,4-dinitrotoluene	nd	798 benzo(ghi)perylene	20
	2,6-dinitrotoluene	nd		n
	1,2-diphenylhydrazine			no
	(as azobenzene)	nl		no
398	fluoranthene	nd		16
40B	4-chlorophenyl phenyl ether	nd		no

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID MU		ES ID <u>825748</u>				
6/15-82	Aliquot analyzed					
Date Received 6/24-82	Detector Used:	Coulson, EC, Flame, PID				
Date analyzed	ChemistLIB	Approved				
	Detection Limits (ppb)	Found (ppb)				
Aldrin	c. CC3	C.05Z				
Alpha BHC	0.002					
Beta BHC	0.004					
Delta BHC	D-004					
Gamma BHC (lindane)	0.002					
Chlordane	0.04					
DDD (TDE)	0.012					
DDE	0.666-					
DDT	c.016					
Dieldrin	(.tt6					
Endosulfan I	0.005					
Endosulfan II	0.01					
Endosulfan sulfate	0.03					
Endrin	0.009					
Heptachlor	c.00Z					
Heptachlor epoxide	0.004					
Methoxychlor	0.62					
Toxaphene	C.40					
2,4,D	0.001	0.138				
2,4,5,T	0001					
2,4,5 TP (Silvex)	0.002					
DBCP (Dibromochloro propane)						

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#### PESTICIDE/HERBICIDE REPORT FORM

sample in M-Cleikul AFB		ES ID Ougs			
Will # 165	Aliquot analyzed <u>IL.</u> Detector Used: Coulson, © Flame, PI				
Date Received 16 August 1982					
Date Received 16 August 1982  Date analyzed 26 Aug 82	Chemist HF	Approved			
_	Detection Limits (PPb)	Found (ppb)			
Ald in	0.003				
Alpha BHC	9.902	0.032			
Beta BHC	0.004				
Delta BHC	0.004				
Gamma BHC (lindane)	0.002	0.036			
Chlordane	0.04				
DOD (IDE)	0.012				
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005				
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
Endrin	0.009				
Heptachlor	0.002				
Heptachlor epoxide	0.004	0.027			
Methoxychlor	0.02				
Toxaphene	0.40				
2,4,D	0.001				
2,4,5,T	0.001				
2,4,5 TP (Silvex)	0.002				
DRCP (Dibromochloro propane)		•			

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no identifiable perbicide praks

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Cleibn AFB				ES ID S	10953	
mw # 185			Aliquo	t Analyzed		
Date Received 18 August 1982  Date Analyzed 26 August 1982	Chemist_	Detector HF		&C Coulson,		
	Detection	Limits (	ppb)	Found	l (ppb)	
Aroclor 1016				<del></del>		
Aroclor 1221						
Aroclor 1232		<i>-</i>		····		
Aroclor 1242						
Aroclor 1248					· · · · · · · · · · · · · · · · · · ·	
Aroclor 1254				<del></del>		
Aroclor 1260						
	Vot detecte	ed.				<u> </u>

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### METALS REPORT FORM

Sample ID McClellan AFB				ES ID	820798
Date Received 24 June 1982				liquot analyzed	
			M	ethod Used	<del></del>
Date analyzed	-	Chemis	st	Approved	<del></del>
Element	Code	Detection Flame	Limit (ppb)	Detected	Limit
Aluminum	<del></del>	500	50.	36-72	<del></del>
intimony	p.,c	500	10	L0.005	
Arsenic	p,h,c,d,o		10	L0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<u> </u>	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 ?tota	1 <0.05	
Chromium (+6)	c.		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	40.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	40.01	
Lithium		50			
Magnesium		1			
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0016.	
Molybdenus	c	500			
Nickel	p,c,o	40	1	L0.05	
Potessium		10			-
Selenium	p,h,c,d		10	40.01	
Silicon	-	10			

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8/27/82

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22 and 40	Co. Lo	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Element	Code		LISMETE22	Detected	DIMIE
Silver	p,h,c,d,0	50	1	L0.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	20.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking watero - Ocean waters of California

8/6

SEES FOWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (918) 381-5105 .

#### PRIORITY POLLUTANT DATA SHEET

CAL LAB NO. 15052-11 Science CLIENT Engineering CLIENT I.D. 4/2/ VOLATILES ug/L acrolein 27 nd. acrylonitrile nd 34 4٧ benzene nd carbon tetrachloride 67 nd ch1orobenzene 78 nd 1,2-dichloroethane 107 nd 1,1,1-trichloroethane 114 nd 137 1,1-dichloroethane nd 1,1,2-trichloroethane 144 nd 1.1.2,2-tetrachloroethane 157 nd chloroethane 164 nd 2-chloroethylvinyl ether 197 nd chloroform 237 nd 1,1-dichloroethylene 291 nd 1,2-trans-dichloroethylene **30V** nd 1,2-dichloropropane **32**¥ nd 1.3-dichloropropylene 337 nd ethylbenzene **38**V na 447 methylene chloride nd methyl chloride 45Y nd 46V methyl bromide nd bromoform 477 na dichlorobromomethane **48V** nd trichlorofluoromethane 497 nd dichlorodifluoromethane **50V** nd 517 chlorodibromomethane **85**V tetrachloroethylene toluene 86V nd nd ND = Not detected trichloroethylene **87V** vinyl chloride 88V nd 1,1,2-trichloro-2,2,1-trifluoroethane

461 NORTH 1614 STREET SACRAMENTO, CALIFORNIA 95814 (816) 444-8669

### PRIORITY POLLUTANT DATA SHEET

NT _	Engineering Science		CAL LAB NO. 145372 -	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	<i>3 /५≥</i> v <b>g/</b> L
21A		ND	418 4-bromophenyl phenyl ether	10
22A	p-chloro-a-cresol	ND	42B bis(2-chloreisepropyl)ether	40
24A	2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	/10
31A	2.4-dichlorophenol	np	52B bexachlorobutadiene	121
34A	2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	1112
57A	2-nitrophenol	ND	548 isophorone	1117
58A	4-nitrophenol	ND	558 naphthalene	1117
59A	2,4-dinitrophenol	MZ	568 nitrobenzene	(111)
60A		ND	61B N-nitrosodimethylamine	
54A		MD	628 N-nitrosodiphenylamine	11:7
65A		ND	63B .N-nitrosodi-n-propylamine	11.5
-			66B bis(2-ethylhexyl)phthelate	Ni
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthelate	118
• •		<b>#</b> 45	688 di-n-butyl phthelate	11.1
.8	acenaphthene	<u>ND</u>	698 di-n-octyl phthalate	/11
58	benzidine	m	708 diethyl phthalate	jt;
88	1,2,4-trichlorobenzene	MD	718 dimethyl phthalate	131
98	hexach1orobenzene	NO	728 benzo(a)anthracene	10
	hexach lorge thane	<u>M)</u>	738 benzo(a)pyrene	n
	bis(2-chloroethyl)ether	no	74B 3,4-benzofluorenthene	Mi
	2-chlerenaghthelene	no	758 benzo(k)fluoranthene	121
	1,2-dichlorobenzene	<u>no</u>	76B chrysene	_ 131
	3 1,3-dichlorobenzene	121)	778 acenaphthylene	17
	1,4-dichlorobenzene	14)	788 anthracene	- 701
	3,3'-dichlorobenzidine	no.	798 benzo(ghi)perylene	191
	8-2,4-dinitrotoluene	<u>(M)</u>	80B fluorene	117
	B 2,6-dinitrotoluene	110	818 phenanthrene	- /(/ /1.
371	B-1-2-diphenylhydrazine	lus	828 dibenzo(a,h)anthracene	
204	(as azobenzene)	M)	83B indeno(1,2,3-cd)pyrene	1/1
	8 fluoranthene 8 4-chlorophenyl phenyl ether	ns)	848 pyrene	11

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5886 POWER INN ROAD BACRAMENTO, CALIFORNIA 95824 (818) 381-8105

### PRIORITY POLLUTANT DATA SHEET

r		CAL LAB NO. 15052-11
IENT <u>Engineering Science</u>		CLIENT I.D. Well 1951
ACID COMPOUNDS	μ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS µg/L
21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether
22A p-chloro-m-cresol	nd	428 bis(2-chloroisopropyl)ether $\gamma$
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy) methane $\gamma$
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene $\gamma_1$
34A 2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene y
57A 2-nitrophenol	nd	54B isophorone 7
58A 4-nitrophenol	nd	558 naphthalene $\gamma$
59A 2,4-dinitrophenol	nd	568 nitrobenzene 71,
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine 7%
64A pentachlorophenol	7	62B N-mitrosodiphenylamine Y
65A phenol	nd	638 N-nitrosodi-n-propylamine
		668 bis(2-ethylhexyl)phthalate 20
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate $\gamma_1$
1B acenaphthene	nd	688 di-n-butyl phthalate $\gamma$
5B benzidine	nd	698 di-n-octyl phthalate
88 1,2,4-trichlorobenzene	nd	708 diethyl phthalate
9B hexachlorobenzene	nd	718 dimethyl phthalate $\sim$
12B hexachloroethane	nd	728 benzo(a)anthracene
188 bis(2-chloroethyl)ether	nd	738 benzo(a)pyrene
20B 2-chloronaphthalene	nd	748 3,4-benzofluoranthene
25B 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene 7
26B 1,3-dichlorobenzene	nd	76B chrysene ~ ~
27B 1,4-dichlorobenzene	nd	778 acenaphthylene 7/2
28B 3,3'-dichlorobenzidine	nd	788 anthracene n
35B 2,4-dinitrotoluene	nd	79B benzo(ghi)perylene 71.
368 2,6-dinitrotoluene	nd	80B fluorene n
37B 1,2-diphenylhydrazine		81B phenanthrene n
(as azobenzene)	nd	82B dibenzo(a,h)anthracene 7
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene 70
408 4-chlorophenyl phenyl ether	nd	848 pyrene ~ ~

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID HW 195		ES ID. EZCGAC		
	Aliqu	ot_analyzed		
Date Received 4/29-82	Detector Used:	Coulson, EC, Flame, PI		
Date analyzed	ChemistL1B	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	C. C.C.3			
Alpha BHC	0.002			
Beta BHC	C:004			
Delta BHC	t.cc4			
Gamma BHC (lindane)	0.002	0.647		
Chlordane	0.04			
DDD (TDE)	C.012			
DDE	0.606			
DDT	c 016	· ·		
Dieldrin	C.006	CZC		
Endosulfan I	c.005			
Endosulfan II	0.61			
Endosulfan sulfate	0.03			
Endrin	८.०८न			
Heptachlor	C.CCZ	<del></del>		
Heptachlor epoxide	c.(c9			
Methoxychlor	0.02			
Toxaphene	C.40			
2,4,D	0.001			
2,4,5,T	0001			
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)				

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#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID McClellan AFB		ES ID <u>620955</u>
ive11# 195	Alic	quot analyzed /L
Date Received 15 August 1982		: Coulson, EC, Flame, PID
Date analyzed 51 Aug 82	Chemist	Approved
•	Detection Limits (ppo)	Found (ppb)
Aldrin	0.003	
Alpha BHC	9.902	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DOE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	D-07 0.056
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxephene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)	1	

ENGINEERING-SCIENCE - BERKELEY LABORATORY

no identifiable peaks

## AROCLOR (PCB) REPORT FORM

Sample IDMcClellan AFB	ES ID <u>820935</u>				
MW #195	Aliquot Analyzed //				
Date Received 18 August 1982  Date Analyzed 31 August 1982	Detector Used:	EC, Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232	<u> </u>				
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

Sample ID Mc Clellon AFB					
mw # 195					
Date Received 29 April 1922					
Date analyzed	Chemist				

Aliquot analyzed _______
Method Used _____

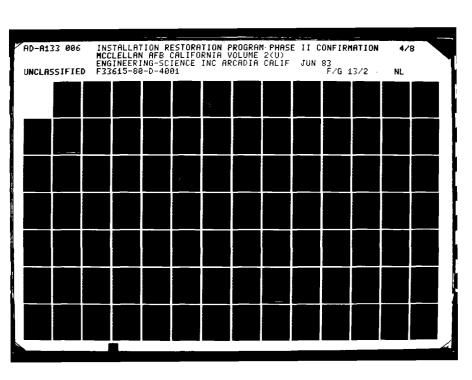
Approved _____

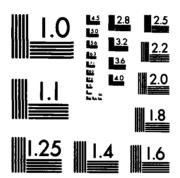
Detection Limit (ppb)
Flame Flameless Detected Element Code Limit 500 50 Aluminum 500 10 Antimony p,c 0.06 p,h,c,d,o 10 Arsenic 0.66 5 Barium 1,000 h,c,d Beryllium p,c, Cadmium p,h,c,d,o 5 0.1 0.45 Calcium 50 1) total Chromium (+3) p,h,c,d,o 20 4.17. 10/ Chromium (+6) c Cobalt 50 1 1 Copper 20 p,c,d,o 1.18 Gold 100 1 100 1 Iron d Lesd p,h,c,d,o 100 10 0.08 Lithium 50 Magnesium 1 0.5 đ 10 Manganese 0.5 Mercury p,h,c,d,o 0.0016 500 Molybdenum C Nickel 40 p,c,0 1 1.33 Potassium 10 Selenium 10 p,h,c,d 0.355 Silicon 10

64/18

8/27/82

3-288





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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			n Limit (ppb)	<b>-</b>	
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	<del></del>
Sodium		10			
Thellium	p,c,				
Tin					·
Venedium	c				
Zinc	p,c,d,o	5	0.05	1.75	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste d - EPA drinking water

o - Ocean waters of California

4/29 somple)

# California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

				<u> </u>
CLIENT		Engineening Science	CAL LAB	NO. 14556 -7
CLIENT	1.0.	MW 20 5		
	_	VOLATILES	ug/s or u	g/Kg
	27	acrolein		
	3V	acrylonitrile	no	
	44	benzene		
	6٧	carbon tetrachloride	NO	
	<b>7V</b>	chlorobenzene	<u>(U)</u>	
	100	1,2-dichloroethane	no	
	117	1,1,1-trichloroethane	MO	
	137	1,1-dichloroethane	110	
	147	1,1,2-trichloroethane	M	-
	157	1,1,2,2-tetrachloroethane	MO	
	167	chloroethane	MO	
	197	2-chloroethylvinyl ether	NO	
	23V	chloroform	no	
	29V	1,1-dichloroethylene	no	
	30V	1,2-trans-dichloroethylene	no ···	
	327	1,2-dichloropropane	IND	
	33V	1,3-dichloropropylene	M	
,	38V	ethylbenzene	M	
	447	methylene chloride	ND ··	
	45V	methyl chloride	<u>M)</u>	
,	46V	methyl bromide	110	
	47V	branaform	m	Andrew Co. Co.
	<u>48Y</u>	dichlorobromomethane	pu)	
	497	trichlorofluoromethane	no.	a de cominse a designação
	<u>50v</u>	dichlorodifluoromethane	WD "	· · · · ·
	517	chlorodibromomethane	110	en er e e e e
	85V	tetrachloroethylene	no	m compress of the designations and a second of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the compression of the
	86V	toluene	no	and the special decision of the special states and the special states are special states and the special states are special states as the special states are special states as the special states are special states as the special states are special states as the special states are special states as the special states are special states as the special states are special stat
	874	trichloroethylene	no	ND = Not detected
	887	vinyl chloride	no	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
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5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

		PRIDRITY PULLUTANT DATA S	1661	
CLIENT		Engineering Science	CAL LAB NO.	14728-15
CLIENT	I.D.	m.w. 20 5	-	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
		VOLATILES	ug/L or ug/Kg	
_	27	acrolein		
_	3٧	acrylonitrile	ili	
	44	benzene	45	
	6V	carbon tetrachloride	140	
	77	chlorobenzene	ila	
	100	1,2-dichloroethane	1.0	
	117	1,1,1-trichloroethane	ni)	-
	139	1,1-dichloroethane	un	
	144	1,1,2-trichloroethane	M	
	157	1,1,2,2-tetrachloroethane	,4)	
	167	chloroethane	10	
	190	2-chloroethylvinyl ether	140	
	234	chloroform	16.2	
	297	1,1-dichloroethylene	110	
	30V	1,2-trans-dichloroethylene	14)	
	327	1,2-dichloropropane	1217	
	337	1,3-dichloropropylene	Ma	
•	<u> 38v</u>	ethylbenzene	220	
	447	methylene chloride	20	
	<u>45V</u>	methyl chloride	1:05	
	467	methyl bramide	12.19	t k.e. unk
	47V	bramoform	10	
,	<u>48V</u>	dichlorobromomethane	1115	<del>, , , , , , , , , , , , , , , , , , , </del>
	497	trichlorofluoromethane	145-	
	<u>50V</u>	dichlorodifluoromethane	no	en en en en en en en en en en en en en e
	517		16.5	enname e a companyone de securito de securito de securito de securito de securito de securito de securito de s
	<u>85V</u>	tetrachloroethylene	40	and contribute all the contribute and contribute all the contribute and contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all the contribute all th
	<u>86v</u>	toluene	44c-	
	<u>87Y</u>	trichlaroethylene	12.2 - NO.	= Not detected
	<u> 88y</u>	vinyl chloride	167	Anna and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec

#### CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15015-1 CLIENT I.D.: 20S

PP#	VOLATILES	ug/L
	acrolein	
2V	acrolein acrylonitrile	ND
37	benzene	ND
47	carbon tetrachloride	— ND
6V	chlorobenzene	ND
77	chlorobenzene 1,2-dichloroethane	ND
100		
117	1,1,-dichloroethene	— ND
137		DM
147	1,1,2,2-tetrachloroethane	- ND
157	chloroethane	ND
167		- ND
197	chloroform	MD
23V		UN
29V	1,2-trans-dichloroethylene_	
30V	1,2-dichloropropene	- ND
32V		
337	ethylbenzene	ND
38V	mernylene chigrige	עא
447		
45V		
46V		עא
477	dichlorobromomethane	עא
48V 49V	trichlorofluoromethane	עא
-50V	dichlorodifluoromethane chlorodibromomethane tetrachloromethylene	מא
51V	chlorodibromomethane	עא
85V 86V		
87V	CI TCHTOI OF CHITTENS	
88V		
90 V	* less than lOug/L	עא
	ND- not detected	

COMMENTS:

401 NORTH 19IN STREET SACRAMENTO, CALIFORNIA 95814

### PRIORITY POLLUTANT DATA SHEET -

NT	Ensineering Science			CAL LAB NO	1328-2
	, , , , , , , , , , , , , , , , , , , ,	+4 1		CLIENT I.D.	225 205
	ACID COMPOUNDS * see lever le	elve!ug/L	BASE/N	EUTRAL COMPOUNDS	. ug/L
21A 2	.4,5-tr1ch1orophenol	ND	418 4-b	romophenyl phenyl	ether AD
22A p	-chloro-a-cresol	ND	428 bis	(2-chloraisopropy)	lether 19
24A 2	-chiorophenol	ND_	438 bis	(2-chloroethoxy)	thane 10
31A 2	4-dichlorophenol	NO	52B bex	achlorobutadiene	1,17
34A 2	4-dimethylphenol	no	538 hex	achlorocyclopentad	tene (11)
57A 2	-nitrophenol	no_	548 iso	phorone	14)
58A 4	-nitrophenol	10	558 nap	h tha lene	/1/2
59A 2	4-dinitrophenol	10	56B nit	robenzene	1417
60A	1,6-dinitro-o-cresol	NO	618 N-m	itrosodimethylamin	11/2
64A	pentach] progheno]	Ni)	628 N-F	itrosodiphenylami	• · //n
65A	phenol	MI	63B . N-r	i trosodi -n-propyli	mine /in
			668 bis	(2-ethylhexyl)phti	ialate /Li)
	BASE/NEUTRAL COMPOUNDS */	ree ceverlette	678 but	tyl benzyl phthala	<b>4</b>
18 ac	conaphthone	ND		-n-butyl phthelate	(1964) (117)
	enzidino	///	'698 d1-	-n-octyl phthalate	110
	.2.4-trichlorobenzene	110	708 die	ethyl phthalate	/11/
	exach lorobenzone	NO	718 dts	methyl phthalate	/ts
	exact lorge there	NO	728 be	nzo(a)anthracene	
	is (2-chloreethyl) ether	10	738 be	nzo(a)pyrene	// ;
	· · · · · · · · · · · · · · · · · · ·	NO	748 3,	4-benzofluorenthen	- /12
	-chlereneshthelene		758 be	nzo(k)fluoranthene	1 - 117
. —	,2-dichlorebenzene	110	76B ch	rysene	211
	,3-dichlorobenzene	MA	778 ac	enaphthy lene	· · · /l:
	4-dichlorobenzene	<u>nn</u>		thracene	711
	1,3'-dichiorobenzidine	, MD		nzo(ghi)perylene	- 11
	2,4-dinitrotoluene	110		uorene	//
-	2,6-dinitrotoluene	<u>M)</u>		enenthrene	/1.
	1,2-diphonylhydrazine (as azobenzone)	NO_		benzo(a,h)anthrace	
	fluoranthene	AO_		ideno(1,2,3-cd)pyr	
	4-chlorophenyl phenyl ether	NI		rene	

RUBY A. ULRICH ECRETARY/TREASURER

### California Analytical Laboratories, Inc.

8111

ACID COMPOUNDS

ISS POWER INN ROAD SACRAMENTO, CALIFORNIA SERNI **(810) 381-\$105** 

#### PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT:

ENGINEERING SCIENCE

CAL LAB NO.

15015-1

CLIENT I.D.:

81B phenanthrene

84B pyrene

82B dibenzo(a,h)anthracene

83B indeno(1,2,3-cd)pyrene___

WELL 20S

#### BASE/NEUTRAL COMPOUNDS ND 21A 2,4,6-trichlorophenol ND 41B 4-bromophenyl phenyl ether ND 42B bis(2-chloroisopropyl)ether ND 22A p-chloro-m-cresol 24A 2-chlorophenol ND 43B bis(2-chloroethoxy)methane ND 31A 2,4-dichlorophenol ND 52B hexachlorobutadiene ND 34A 2,4-dimethylphenol ND 53B hexachlorocyclopentadiene ND 57A 2-nitrophenol_ ND 54B isophorone -90 ND 55B naphthalene-58A 4-nitrophenol ND ND 56B nitrobenzene 59A 2.4-dinitrophenol ND 60A 4,6-dimitro-o-cresol ND 61B N-nitrosodimethylamine ND 64A pentachlorophenol_ ND 62B N-nitrosodiphenylamine ND 65A phenol_ ND 63B N-nitrosodi-n-propylamine_ ПN 66B bis(2-ethylhexyl)phthalate ND BASE/NEUTRAL COMPOUNDS 67B butyl benzyl phthalate___ ND ND 68B di-n-butyl phthalate__ 1B acenaphthene ND ND 69B di-n-octyl phthalate 5B benzidine ND 8B 1,2,4-trichlorobenzene ND 70B diethyl phthalate_ ND 71B dimethyl phthalate ND 9B hexachlorobenzene 72B benzo(a)anthracene_ ND 12B hexachloroethane ND ND 18B bis(2-chloroethyl)ether 73B benzo(a)pyrene_ ND 74B 3.4-benzofluoranthene 20B 2-chloronaphthalene_ ND 75B benzo(k)fluoranthene_ 25B 1,2-dichlorobenzene ND ND 26B 1,3-dichlorobenzene 76B chrysene ND ND 77B acenaphthylene 27B 1,4-dichlorobenzene ND 28B 3,3'-dichlorobenzene 220 78B anthracene ND 35B 2,4-dimitrotoluene_ 79B benzo(ghi)perylene ND ND 80B fluorene 90 36B 2,6-dimitrotoluene

ND

ND

398 fluoranthene

37B 1.2-diphenylhydrazine

40B 4-chlorophenyl phenyl ether

(as azobenzene)_

ND

ND

⁼ less than a detection limit of 200 ug/L

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID 11/2/1/205		ES 10 620775
5/25-82	Aliqu	ot analyzed    L
Date Received 6/4-62	Detector Used:	Coulson, EC, Flame, PID
uste analyzed	ChemistL18	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. CC3	
Alpha BHC	0.002	
Beta BHC	C.004	
Delta BHC	D.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	C.012	
DOE	0.006	
DDT	. c.c	
Dieldrin	C.006	
Endosulfan I	¢.æš	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	८.०८.१	
Heptachlor	c.ocz	
Heptachlor epoxide	0.064	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	
2,4,5,T	0001	C.CC.&
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID Mª Clellan AFB	ES ID <u>620:975</u>			
Well # 205	Aliquot analyzed			
Date Received 11 Air 62	Petector Used:	Coulson, C. Flame, PID		
Date analyzed 15 Sept 82	Chemist	Approved		
<u> </u>	Detection Limits	Found (ppb)		
Aldrin	0.003			
Alpha BHC	9,902			
Beta BHC	0.004			
Delta BHC	0.004			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DOD (TDE)	0.012			
DOE	0.006			
DOT	0.016			
Dieldrin	0.006			
Endosulfan I	0.005			
Endoculfan II	0.01			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	0.002			
Heptachlor epoxide	0.004			
Methoxychlor	0.02			
Toxaphene	0.40			
2,4,D	0.001	0.13		
2,4,5,T	0.001			
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)		•		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	IS ID <u>&amp;20 725</u>		
mu # 20 5	Aliqu	not Analyzed /L	
Date Received// August 1982  Date Analysed_15 September 1982	Detector Used:	EC, Coulson, Flame, PID Approved	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260			

Not detected.

### METALS REPORT FORM

MU MIOS		Aliquot analyzed	
Date Received 8 June 1972		Method Used	
Date analyzed	Chemist	Approved	

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit	
Aluminum		500	50			
Antimony	p,c	500	10	0.026		
Arsenic	p,h,c,d,o		10	0.24		
Barium	h,c,d	1,000	5	<u>.</u>		•
Beryllium	p,c,					•
Cadmium	p,h,c,d,o	5	0.1	0.02		•
Calcium	•	50				•
Chromium (+3)	p,h,c,d,o	20	1 Ztotal	L0.05		
Chromium (+6)	C		70)			•
Cobalt		50	1			•
Copper	p,c,d,o	20	1	20.05		•
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	. Lo.01		
Lithium		50		Market Control of		,
Magnesium		1	-	·	· · · · · · · · · · · · · · · · · · ·	
Manganese	đ	10	0.5	and the second second		oggen, sain sambyon
Mercury	p,h,c,d,o		0.5	<0.0005		
Molybdenus	e	500		and and the graph of the same	same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o	
Nickel	p,c,o	40 ·	1	L0.18		
Potassium		10			وسران والمواسود المراج المراج الما المال الما	
Selenium	p,h,e,d		10	0.074	, as	
Silicon		, ,				·

64/18

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	20.05	
Sodium		10			
Thellium	p,c,				
Tin				÷	
Vanadium	c				
Zinc	p,c,d,o	5	0.05	(0.02	

codes: p - EPA priority pollutant

h - EPA hezardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

2-300

# California Analytical Laboratories, Inc.

#### 5866 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 391-4105

### PRIORITY POLLUTANT DATA SHEET

	Engineering Science	_ CAL LAB	NO. 14772-03
CLIENT I.D.	· MW2PS	_	
	VOLATILES	ug/L	
27	acrolein	nd	
_3٧	acrylonitrile	nd	
_4٧	benzene	nd	
_6V	carbon tetrachloride	nd	_
_77	chlorobenzene	nd	
_10\	1,2-dichloroethane	nd	
_11\	1,1,1-trichloroethane	nd.	
_13\	l,1-dichloroethane	nd	•
_ 14\	1,1,2-trichloroethane	nd	
15\	1,1,2,2-tetrachloroethane	nd	
161	chloroethane	nd	
191	2-chloroethylvinyl ether	nd	•
231	/ chloroform	nd	
29\	1,1-dichloroethylene	nd	•
301	1,2-trans-dichloroethylene	nd	
321	1,2-dichloropropane	nd	• • •
331		nd	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
381	ethylbenzene	nd	· ··-
.44\	methylene chloride	nd	* · · · · · · · · · · · · · · · · · · ·
451	methyl chloride	nd	to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the
461	/ methyl bromide	nd	The second section is a second section of the second section of the second section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section sec
47\		nd	residente de la composición de la composición de la composición de la composición de la composición de la comp
481	dichlorobromomethane	nd	
491		nd	
501		nd	The Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Co
511		nd	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
851		nd	. whenever a sure a manager of sures.
861		nd	* = Less than 10 ug/L
871		-nd	ND = Not detected
88\		nd	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	1,1,2-trichloro-2,2,1-trifluoroethane	nd	no entre la companya de la companya

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-2 CLIENT I.D.: #21 S

PP#	VOLATILES	ug/L
27	acrolein	NT
3V	acrylonitrile	תא
47	benzene	תא ביי
6V	carbon tetrachloride	תא
7 <b>V</b>	chlorobenzene	DN
100	chlorobenzene 1,2-dichloroethane	ND
117	1.1.1-Crichioroethane	117
13V	l.ldichloroethane	1275
14V	l.l.Z-trichloroethane	3173
157	1.1.4.2-Tetrachioroethane	VIII.
16V	chloroethane 2-chloroethylvinyl ether	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	chloroform 1,1-dichloroethylene 1,2-trans-dichloroethylene	ND
30V	1,2-trans-dichloroethylene_	ND
32V	1.2-dicutoropropane	100
337	1.3-uichioropropviese	
38V	etnylbenzene	100
44V	MECUATENG CUTOLIDE	117
45V	MEEDAT CUTOLIDE	100
46V	mernat promide	1173
478	bromoform dichlorobromomethane	ND
48V	dichiorobromomethane	ND
49V	CLICUTOLOLI NOLOMETUBUS	
50V	dichlorodifluoromethane	ND
51 <b>V</b>	chlorodibromomethane tetrachloroethylene	ND
85V	tetrachioroethylene	ND
86V	COLUENE	
877	cr remain occurrence	MITS
88V	vinyl chloride  * less than lOug/L	ND
	* Tess Cuau Tong/r	
	ND- not detected	

COMMENTS:

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (816) 444-8802

HT Engineering Science	( )	CAL LAB NO. 14772	-/3
" Significant Section		CLIENT I.D.MW 215	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd
22A p-chloro-m-cresol	nd	428 bis(2-chloroisopropyl)ether	nd
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	nd
34A 2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene	nd
57A 2-nitrophenol	nd	548 isophorone	nd
58A 4-nitrophenol	nd	55B naphthalene	nd
59A 2,4-dinitrophenol	ad	56B nitrobenzene	nd
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
S4A pentach]oropheno]	nd	628 N-nitrosodiphenylamine	nd
65A pheno1	nd	638 N-nitrosodi-n-propylamina	nd
		66B bis(2-ethylhexyl)phthalate	230
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	nd
; '8 acenaphthene	nd	688 di-n-butyl phthalate	nd
58 benzidine	nd	69B di-n-octyl phthalate	nd
788 1,2,4-trichlorobenzene	nd	708 diethyl phthalate	nd
98 hexachlorobenzene	nd	71B dimethyl phthalate	nd
128 hexachloroethane	nd	72B benzo(a)anthracene	nd
188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	na
208 2-chlerenaghthalene	nd	74B 3,4-benzofluoranthene	nd
258 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene '	na
268 1,3-dichlorobenzene	nd	76B chrysene	na
27B 1,4-dichlorobenzene	nd	778 acenaphthylene	na
288 3,3'-dichlorobenzidine	nd	788 anthracene	na
	nd	798 benzo(ghi)perylene	na
358 2,4-dinitrotoluene	70	808 fluorene	no
36B 2,6-dinitrotoluene	nd	818 phenanthrene	n
378 1,2-diphenylhydrazine (as azobenzene)	nd	828 dibenzo(a,h)anthrecene	·n
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	n
408 4-chlorophenyl phenyl ether	nd	848 pyrene	n

ANTHONY S WONG, Ph D VICE PRESIDENT

RUBY A. ULRICH SECRETARY/TREASURER

# California Analytical Laboratories, Inc.

SEES POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (919) 381-5105

8/13

PRIORITY POLILITANT DATA SUMMARY SHEET

CLIENT: ENGINEERING SCIENCE

CAL LAB NO.

15031-2 # 21 S /

CLIENT I.D.: # 21 S

ACTD COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	_ ND	41B 4-bromophenyl phenyl ether	ИD
22A p-chloro-m-cresol	_ ND	42B bis(2-chloroisopropyl)ether	ND
24A 2-chiorophenol	ND	43B bis(2-chloroethoxy)methane	לא
24A 2-chlorophonol 31A 2.4-dichlorophenol	ND	52B hexachlorobutadiene	_ ND
34A 2,4-dimethylphenol	_ ND	53B hexachlorocyclopentadiene	_ אס
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B maphthalene	ND
58A 4-nitrophonol	ND	56B nitrobenzene	MD T
60A 4,6-dimitro-o-cresol	ND	61B N-nitrosodimethylamine	_ אס
- 64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phonol	ND	63B N-nitrosodi-n-propylamine	לא
	_	66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	_ ND
1B accnaphthene	_ ND	68B di-n-butyl phthalate	_ ND
5B benzidine	ND	69B di-n-octyl phthalate	NĐ
8B 1,2,4-trichlo-ohenzene	ND	70B diethyl phthalate	_ ND
9B hexachlorobenzene	ND	71B dimethyl phthalate	_ מא
12B hexachloroethane	ND	72B benzo(a)anthracene	
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	_ ND
25B 1.2-dichlorohenzene		75B benzo(k)fluoranthene	_ ND
-26B 1,3-dichlorobenzene	_ אס	76B chrysene	_ ND
27B 1,4-dichlorobenzene		77B acenaphthylene	_ ND
28B 3, 3' -dichlorobenzene	ND	78B anthracene	ND
35B 2,4-dinitrotoluenc	ND	79B benzo(ghi)perylene	_ ND
36B 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1.2-diphenylhydrazine	_	81B phenanthrene	ND
(as azobenzene)	_ ND	82B dibenzo(a,h)anthracene	ND
39Bfluoranthene	ND	83B indeno(1,2,3-cd)pyrene	_ ND
40B4-chlorophenyl phenyl ether	ND	84B pyrene	ND

less than a detection limit of 10 ug/L
ND = not detected

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID My		ES ID <u>876864</u>
615-82		not analyzed
Date Received 6-/2-4-82.	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	C.C49
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	<i>₹.004</i>	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DDE	0.006	
DOT	c.016	
Dieldrin	C.Cc6	
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	c.cc9	
Heptachlor	c.ccz	C.C11
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40·	
2,4,D	0.001	C.   17-
2, 4, 5, T	0001	c.cf7
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

sample ID McCleikin AFB		ES ID <u>620929</u>	
1kil #215	Aliqu	ot analyzed	
Date Received 13 Aug 82 Date analyzed 27 Aug 82	Detector Used:	Coulson, EC Plame, PID	
Date analyzed 27 Aug Bz	Chemist HF	Approved	
	Detection Limits (ppb)	Found (ppb)	
Aldrin	0.003		
Alpha BHC	9.902		
Seta BHC	0.004	0.048	
Delta BHC	0.004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		
DDD (TDE)	0.012		
DOE	0.006		
DDT	0.016		
Dieldrin	0.006		
Indosulfan I	0.005		
Indosulfan II	0.01		
Indosulfan sulfate	0.03		
ndrin	0.009		
Septachlor	0.002		
Septachlor epoxide	0.004	0.007	
ethoxychlor	0.02		
Toxaphene	0.40		
2,4,D	0.001		<u> </u>
2,4,5,T	0.001	· <del></del>	3
2,4,5 TP (Silvex)	0.002		her
MSCP (Dibromochloro propane)			2 2

#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	ES ID 820 929		
MW # 215	Aliqu	ot Analyzed /L	
Date Analysed 27 August 1982	Detector Used:	£C Coulson, Flame, PID Approved	
#	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260			

#### METALS REPORT FORM

Sample ID McClellan AFB  MW # 215  Date Received 24 June 1982  Date analyzed			4	ES II Lliquot analyzed	820804
		Chemist		- <del></del> -	od Used
Element	Code	Detection L Flame	imit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	(0.005	
Arsenic	p,h,c,d,o		10	L0.05	
Barium	h,c,d	1,000	5		·
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5 -	0.1	40.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 Ztota	1 40.05	
Chromium (+6)	C	<del></del>	70)	· ·	
Cobalt		50	1		
Copper	p,c,d,o	20	1	<i>&lt;0.05</i>	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>&lt;0.01</b>	· <del></del>
Lithium		50			
Magnesium		1			
Manganese:	d	10	0.5		<u> </u>
Mercury	p,h,c,d,o	<del></del>	0.5	0.0014	<del> </del>
Molybdenus	c	500			
Nickel	p,c,o	40	1	40.05	
Potassium		10			
Selenium	p,h,c,d		10	LO.01	
Silicon		10	<del></del>		

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<i>&lt;0.05</i>	
Sodium'		10			
Thellium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	20.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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#### PRIORITY POLLUTANT DATA SHEET

CLIENT I.D. M.W. 32 S CAL LAB NO. 14728-16

	VOLATILES	Tor La/Ka
24	acrolein	NO
3 <b>V</b>	acrylonitrile	NO
4٧	benzene	NO
6V	carbon tetrachloride	NI
7٧	ch1 orobenzene	(U)
104	1,2-dichloroethane	po
117	1,1,1-trichloroethane	100
137	1,1-dichloroethane	NO
147	1,1,2-trichloroethane	no
15V	1,1,2,2-tetrachloroethane	un
164	chloroethane	MO
197	2-chloroethylvinyl ether	ND
23V	chloroform	no
29V	1,1-dichloroethylene	MO
30V	1,2-trans-dichloroethylene	Mn
32 <b>y</b>	1,2-dichloropropane	ND_
33V	1,3-dichloropropylene	Mo
	ethy1benzene	110
444	methylene chloride	no
45V	methyl chloride	no
467	methyl bromide	uo
474	bromoform	<u> </u>
487	dichlorobromome thane	ND_
497	trichlorofluoromethane	<u> </u>
_50V	dichlorodifluoromethane	NO
517	chlorodibromomethane	un
85V	tetrachloroethylene	un
86V	toluene	NO
87V	trichioroethylene	8 NO
88V	vinyl chloride	NO

. .....

ND = Not detected

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-3 CLIENT I.D.: #22 S

PP#	VOLATILES	ug/L
2 <b>V</b>	acrolein	ND
3V	acrylonitrile	
47	benzene	ND
6V	carbon tetrachloride	ND
77	chlorobenzene	ND
10 <b>V</b>		ND
117		
13V		ND
14V		ND
157		ND
167		ND
197		ND
23V	chloroform	ND
29V		ND
30V	<u> </u>	6_⁄
32 <b>V</b>	· · · · · · · · · · · · · · · · · · ·	ND
33 <b>V</b>		ND
38V		ND
44V		ND
45V	methyl chloride	ND
46V	methyl bromide bromoform	ND
477		ND
48V		ND
49V - 50V		
-		ND ND
51V		ND
85V 86V	•	ND
87V		
88V		ND
00 V	* less than loug/L	N
	NDm not detected	

COMMENTS:

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### PRIORITY POLLUTANT DATA SHEET

LENT	Emineering	Science.	<del></del>	CAL LAB NO. 14 FAST CLIENT I.D. 208	-1 :225
	ACTO COMPOUNDS	μ <b>g/L</b>	BA	SE/NEUTRAL COMPOUNDS	μ <b>g/</b> L
21A 2	4.6-trichlorophenol	ND_	41B	4-bromophenyl phenyl ether	
	-chloro-a-cresol	&/)	428	bis(2-chloroisopropyl)ether	٠.
	-chlorophenol	/L)	438	bis(2-chloroethoxy)methene	4)
	4-dichiorophenoi	(וש:	52B	bexach1orobutadiene	, še
	,4-dimethylphenol	/ <b>U</b> 1)	53B	hexachlorocyclopentadiene	· ·
	-nitrophenol	(M)	548	isapharone	, :
58A 4	-nitrophenol	M	55B	naphthalene	1.
59A 2	.4-dinitrophenol	MD	56B	nitrobenzene	/1
60A 4	,6-dinitro-o-cresol	/Li)	618	N-ni trosodimethylamine	/1
54A p	pentach lorophenol	/10	628	N-ni trosodi phenylamine	/1
65A p	oheno)	140	63B	N-nitrosodi-n-propylemine	/!
		. —	668	bis(2-ethylhexyl)phthalate	[4
	BASE/NEUTRAL COMPOU	<u>NOS</u>	67B	butyl benzyl phthalate	Ą
:8 ac	enaphthene		<u>688</u>	di-n-butyl phthelate	
	nzidine	(40)	698	di-n-octyl phthalate	
	2.4-trichlorobenzene	h()	708	diethyl phthalate	
	exact lorobenzane .	/142	718	dimethyl phthalate	
	exach) proofbane	RO	728	benzo(a)anthracene	1
	is (2-chioroethy 1) e ther		738	benzo(a)pyrene	
	-chloreneghtheiene	/10	748	3,4-benzofluoranthene	ŀ
	,2-dichlorobenzene	NO	<u>758</u>	benzo(k)fluoranthene	
	,3-dichlorobenzene	110	<u>768</u>		1
	,4-dichlorobenzene	un	778	acenaphthylene	
	,3'-dichlorobenzidine	in	788	anthracene	
	.4-dimitrataluene	nn	798	benza(ghi)perylene	
	.6-dinitrotoluene	M	808	fluorene	
	,2-diphonylhydrazine	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	818	phenanthrene	
	as azobenzene)	100	825	dibenzo(a,h)anthrecene	
398	Nuoranthene	/4/2	838	indeno(1,2,3-cd)pyrene	
408	I-chlorophenyl phenyl	ether 1917	845	pyrene	

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8/13

PRIORITY POLILITANT DATA SUMMARY SHEET

CLIENT:

ENGINEERING SCIENCE

CAL LAB NO.

15031-3 #22 S

CLIENT I.D.:

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	I\gu
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether_	סא
24A 2-chlorophenol 31A 2,4-dichlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
344-2.4-dimethylphenol	MD	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	_ ND
58A 4-nitrophenol	ND	55B naphthalene	
59A 2,4-dimitrophenol	ND	56B mitrobenzene	ND
60A 4,6-dimitro-o-cresol		61B N-nitrosodimethylamine	שא
64A pentachlorophenol	15	62B N-nitrosodiphenylamine	תא
65A phonol	ND	63B N-nitrosodi-n-propylamine	מא
		66B bis(2-ethylhexyl)phthalate	מא
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	
1B accnaphthene	ND	68B di-n-butyl phthalate	
5B berzidine	ND	69B di-n-octyl phthalate	
8B 1,2,4-trichlorohenzene		70B diethyl phthalate	
9B hexachlorobenzene		71B dimethyl phthalate	סא
128 hexachloroethane	ND	72B benzo(a)anthracene	MD
12B hexachloroethane 18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	שא
20B 2-chtoronaphthalene	ND	74B 3.4-benzofluoranthene	
25B1,2-dichlorobenzene	MD	75B benzo(k)fluoranthene	<b> אס</b>
26B 1,3-dichlorobenzene	ND	76B chrysene	MD
27B F,4-dichtorobenzene		77B acenaphthylene	MD
28B 3,3'-dichlorobenzene		78B anthracene	ND
35B 2,4-dinitrotoluenc	ND	79B benzo(ghi)perylene	ND
36B 2.6-dinttrotoluene	ND	80B fluorene	
37B 1.2-diphenylhydrazine		81B phenanthrene	ND
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	
39B fluoranthene		83B indeno(1,2,3-cd)pyrene	ND
408 4-chlorophenyl phenyl ether		84B pyrene	ND

⁼ less than a detection limit of 10 ug/L

ND = not detected

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID 16.6 ( # ZZ		ES ID 9:10771-			
6/3-82	Aliquot analyzed 12				
Date Received	Detector Used: Coulson, EC, Flame, PID				
Date analyzed	Chemist <u>UB</u>	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	c. cc3				
Alpha BHC	0.002				
Beta BHC	0.004				
Delta BHC	0.004	C.CE 3			
Gamma BHC (lindane)	0.002	0.464			
Chlordane	0.04				
ODD (TDE)	C.012				
DDE	0.006				
DDT	c.016				
Dieldrin	C.006				
Endosulfan I	c.cc5	-			
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
<b>E</b> ndrin	0.009	-			
Heptachlor	C.00Z				
Heptachlor epoxide	0.009				
Methoxychlor	0.02				
Toxaphene	C.40	·			
2,4,D	0.001	C (26			
2, 4, 5, T	OCCI	C.003			
2,4,5 TP (Silvex)	0.002	C.C31			
DBCP (Dibromochloro propane)		<del></del>			

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### PESTICIDE/HERBICIDE REPORT FORM

semple ID McCkillan AFB		es 10 <u>820931</u>
Neil # 225	Aliqu	not analyzed
Date Received 13 August 82	Detector Used:	Coulson, EC Flame, PID
Date analyzed 27 Aug 82	ChemistHF	Approved
<b>J</b>	Detection Limits (pplo)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0,002	0.057
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindame)	0.002	
Chlordane	0.04	·
DOD (TDE)	0.012	
DOE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	·
Endosulfan II	0.01	
Endosulfan sulfate	0.03	·
Endrin	0.009	
Heptachlor	0.002	<del></del>
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	· · · · · · · · · · · · · · · · · · ·
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		man and and a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the se

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no identifiable hurbicide peaks

#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB  Mul # 225	ES ID 82093/ Aliquot Analyzed /L			
Date Received 13 August 1982 Date Analyzed 27 August 1982	_	EC, Coulson, Flame, PID		
	Detection Limits (ppb)	Found (ppb)		
Aroclor 1016				
Aroclor 1221				
Aroclor 1232				
Aroclor 1242				
Aroclor 1248				
Aroclor 1254				
Aroclor 1260				

Not detected.

#### METALS REPORT FORM

ES ID 120776 Sample ID McClellan AFB Aliquot analyzed _____ mW #225 Date Received 8 June 1982 Method Used ---Approved ____ Date analyzed _____ Chemist Detection Limit (ppb) Flameless Limit Element Code 500 50 Aluminum 500 10 Antimony p,c 10.005 10 Arsenic p,h,c,d,o 40.05 1,000 Berium h,c,d Beryllium p,c, Cadmium 5 0.1 p,h,c,d,o 0.03 50 Calcium 1 { total \ \( \cdot 0.05 \) 20 Chromium (+3) p,h,c,d,o Chromium (+6) c 10 50 Cobalt 20 1 Copper p,c,d,o 20.05 1 100 Gold 1 100 Iron đ 100 10 Lead p,h,c,d,o 60.01 50 Lithium. Magnesium 0.5 10 Manganese d 0.5 Mercury p,h,c,d,o <0.0005 500 Molybdenum 40 1 Nickel p,c,0 20.18 10 Potassium 10 Selenium p,h,c,d 20.01

10

8/27/82

Silicon

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	20.05	
Sodium		10			
Thallium	p,c,				
Tia					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	(0.02)	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

4/29 pengle

# California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT			TRIORITY FORCE AND CALL		
CLIENT 1.0.    May 23 5	CLIENT		Engineering Science	CAL LAB NO	. 14537 -11
acrolein  3V acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  100 1,2-dichloroethane  110 1,1,1-trichloroethane  120 1,1,2-trichloroethane  131 1,1,2-trichloroethane  142 1,1,2-trichloroethane  150 1,1,2,2-tetrachloroethane  160 chloroethane  170 190 2-chloroethylvinyl ether  23V chloroform  23V chloroform  23V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropane  44V methylene chloride  45V methyl chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  700  N0 = Not detected	CLIENT		MW 235		
acrolein  3V acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  100 1,2-dichloroethane  110 1,1,1-trichloroethane  120 1,1,2-trichloroethane  131 1,1,2-trichloroethane  142 1,1,2-trichloroethane  150 1,1,2,2-tetrachloroethane  160 chloroethane  170 190 2-chloroethylvinyl ether  23V chloroform  23V chloroform  23V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropane  44V methylene chloride  45V methyl chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  700  N0 = Not detected				. 6	
acrylonitrile  Wo  Webszene  Carbon tetrachloride  Wo  Carbon tetrachloride  Wo  NO  NO  NO  NO  NO  NO  NO  NO  NO  N			VOLATILES	ug/L or ug/k	9
4V benzene		24	acrolein		
6V carbon tetrachloride		3V	acrylonitrile	NO	
TV chloroberzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropane  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  51V chlorodifluoromethane  51V chlorodifluoromethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene		44	benzene	(II)	
10V   1,2-dichloroethane		6V	carbon tetrachloride	no	
11V		_7V	chlorobenzene	n	
13V		107	1,2-dichloroethane	NO	
14V 1,1,2-trichloroethane 15V 1,1,2,2-tetrachloroethane 16V chloroethane 19V 2-chloroethylvinyl ether 19V 2-chloroethylvinyl ether 23V chloroform 19D 29V 1,1-dichloroethylene 19D 30V 1,2-trans-dichloroethylene 19D 32V 1,2-dichloropropane 19D 38V ethylbenzene 19D 44V methylene chloride 19D 45V methyl chloride 19D 46V methyl bromide 19D 48V dichlorobromomethane 19D 50V dichlorofluoromethane 19D 51V chlorodibromomethane 19D 86V toluene 19D ND = Not detected		117	1,1,1-trichloroethane	no	
15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  100  32V 1,2-dichloropropane  100  38V ethylbenzene  110  44V methylene chloride  45V methyl chloride  46V methyl bromide  46V methyl bromide  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorofluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  100  86V toluene  100  ND = Not detected		137	1,1-dichloroethane	NO	
16V chloroethane		144	1,1,2-trichloroethane	no	
16V chloroethane		<u>15V</u>	1,1,2,2-tetrachloroethane	MO	
19V 2-chloroethylvinyl ether  23V chloroform  100  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodifromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  100  100  100  100  100  100  100		16V	chloroethane		
chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  1,3-dichloropropylene  1,2-dichloropropylene  1,2-dichloropropyle		190	2-chloroethylvinyl ether		
1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodifluoromethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MD  MD  MD  MD  ND = Not detected		23 <b>V</b>	chloroform		
1,2-dichloropropane  1,3-dichloropropylene  1,2-dichloropropylene  1		29V	1,1-dichloroethylene		
1,2-dichloropropane  1,3-dichloropropylene  1,0  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  ND  ND = Not detected		30 <b>V</b>	1,2-trans-dichloroethylene	M	
asy ethylbenzene //D  44V methylene chloride //D  45V methyl chloride //D  46V methyl bromide //D  47V bromoform //D  48V dichlorobromomethane //B  50V dichlorofluoromethane //D  51V chlorodifluoromethane //D  85V tetrachloroethylene //D  86V toluene //D  87V trichloroethylene //D  ND = Not detected		32 <b>Y</b>	1,2-dichloropropane		
44V methylene chloride MD  45V methyl chloride MD  46V methyl bromide MD  47V bromoform MD  48V dichlorobromomethane MD  50V dichlorofluoromethane MD  51V chlorodifluoromethane MD  85V tetrachloroethylene MD  86V toluene MD  NO NO = Not detected		_33V	1,3-dichloropropylene	NO	
### methyl chloride #### #### ##########################		<u> 38v</u>	ethy i benzene		
46V methyl bromide MD  47V bromoform MD  48V dichlorobromomethane MD  49V trichlorofluoromethane MD  50V dichlorodifluoromethane MD  51V chlorodibromomethane MD  85V tetrachloroethylene MD  86V toluene MD  87V trichloroethylene MD  NO = Not detected		447	methylene chloride		
47V bromoform (NO)  48V dichlorobromomethane (NO)  49V trichlorofluoromethane (NO)  50V dichlorodifluoromethane (NO)  51V chlorodibromomethane (NO)  85V tetrachloroethylene (NO)  86V toluene (NO)  87V trichloroethylene (NO)  87V trichloroethylene (NO)  87V trichloroethylene (NO)  87V NO = Not detected		45V	methyl chloride	pro	
48V dichlorobromomethane MB  49V trichlorofluoromethane MD  50V dichlorodifluoromethane MD  51V chlorodibromomethane MD  85V tetrachloroethylene MD  86V toluene MD  87V trichloroethylene MD  ND = Not detected	,	46V	methyl bromide	no	
49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87D  ND = Not detected		47V	bramoform	MO	
50V dichlorodifluoromethane MD  51V chlorodibromomethane MD  85V tetrachloroethylene MD  86V toluene MD  87V trichloroethylene MD ND = Not detected		_48V	dichlorobromomethane	MA	·
50V dichlorodifluoromethane MD  51V chlorodibromomethane MD  85V tetrachloroethylene MD  86V toluene MD  87V trichloroethylene MD  ND = Not detected		497	trichlorofluoromethane	MO	
85V tetrachloroethylene ND 86V toluene NO 87V trichloroethylene ND ND ND NO ND NO detected		50 <b>Y</b>	dichlorodifluoromethane		
85V tetrachloroethylene ND 86V toluene ND 87V trichloroethylene ND = Not detected		517	chlorodibromomethane		
86V toluene UD  87V trichloroethylene ND = Not detected		85V	tetrachloroethylene		
87V trichloroethylene Pio ND = Not detected		86V	toluene		
		87V	trichloroethylene		D = Not detected .
88V vinyl chloride ND		88V	vinyl chloride	ND	

. 15°11.75°20°

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-5 CLIENT I.D.: #23 S

PP#	VOLATILES	ug/L
2 <b>V</b>	acrolein	ND
37	acrylonitrile	ND
47	benzene	ND
6V	carbon tetrachloride	ND
77	chlorobenzene	ND
10 <b>V</b>	1,2-dichloroethane	
11V	1,1,1-trichloroethane	ND
13V	1,1,-dichloroethane	MD
14V	1,1,2-trichloroethane	ND
15 <b>V</b>	1,1,2,2-tetrschloroethane	ND
	chloroethane	ND
19V	2-chloroethylvinyl ether	MD
23V	chloroform	ND
2 <b>9</b> V	1,1-dichloroethylene	ND
<b>30V</b>	1,2-trans-dichloroethylene_	ND
32V	1,2-dichloropropane	ND
337	1,3-dichloropropylene	ND
38V	ethylbenzeneethylene chloride	ND
447	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	
	bromoform dichlorobromomethane	ND
48V	dichiorogromomethane	ND
	trichlorofluoromethane	ND
- 507	dichlorodifluoromethane	עא
514	chlorodibromomethane	ND
85V	tetrachloroethylene	
864	toluene	ND
877	trichloroethylene	WD
884	* less than 10ug/L	עא
	ND= not detected	
	un- unt defected	

COMMENTS .

9-319

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9882

ENT _	Engineening Griene	€		L LAB NO IENT I.O.		
	ACID COMPOUNDS	μ <b>g/</b> L		AL COMPOUND		µg/L
21A	2,4,6-trichlorophenol	ND	41B 4-bromo	phenyl phen	yl ether	1.0
22A	p-chloro-m-cresol	(4.1)	428 bis(2-c	hloroisopro	pyl)ether	:: \
24A	2-chlorophenol	AD	43B bis(2-c	hloroethoxy	)me thene	7.1
31A	2,4-dichlorophenol	141)	52B bexach1	orobutadien	<u> </u>	
34A	2,4-dimethylphenol	NO	53B hexach]	orocyclopen	tadione	1:17
57A	2-n1trophenol	1212	54B isophor	rone		7.0
58A	4-n1 trophenol	120	558 naphtha	lene		MD
59A	2,4-dinitrophenol	M	568 nitrobe	enzene	·	( اربير
60A	4,6-dinitro-o-cresol	ili)	618 N-nitro	osodimethyla	mine .	$-20^{\circ}$
54A	pentach   orogheno	140	62B N-nitro	osodiphenyla	mine .	191)
65A	phenol	pup	63B .N-nitr	osodi-n-pro	y lastine	.11
			66B bis(2-	ethylhexyl)	hthelate	112
	BASE/NEUTRAL COMPOUNDS		67B butyl	benzyl phth	late	121
. 8	aceneghthene	M	688 d1-n-b	utyl phthali	te	
58	benzidine	_///	698 di-n-o	ctyl phthale	ı te	:::
88	1,2,4-trichlorobenzene	[1]	708 diethy	1 phthalate		
98	hexach1orobenzene	(11)	718 dimeth	yl phthalat	<u> </u>	17.
	hexach lorge there	MI	728 benzo(	a)anthracen	·	/ 1.
	bis(2-chleroethyl)ether	MI	738 benzo(	a)pyrene		17.7
-	2-chiereneshthelene	110	748 3,4-be	nzofluorant	hene	H.
	1,2-dichlorebenzene	111)	75B benzo(	k)fluoranth	ene '	ji
. —	1,3-dichlorebenzene		76B chryse	ne		7!)
	1,4-dichlerobenzene	M	77B acenap	h thy lene		11.
	3,3'-dichlorobenzidine	1117	788 anthra	cene		,1:
	2,4-dinitratalyane	MIT	798 benzo	(ghi)perylen	4	,,
	2,6-dinitrotoluene	NI)	808 fluore	rue .	سيست المساسم والمساورة	,/
_	1,2-diphenylhydrazine		818 phenar	threne		. 1
J/6	(as azobenzene)	M	828 dibena	zo(a,h)anthi	ecene	. /?
396	fluoranthene	121)	83B indend	o(1,2,3-cd);	yrene	;,
AOS	8 4-chlorophenyl phenyl ether	NO	848 pyrene	<b>D</b>		

5885 POWER INN ROAD RAMENTO, CALIFORNIA 96824 (810) 381-6105

#### PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT:

ENGINEERING SCIENCE

CAL LAB NO.

15031-5

CLIENT I.D.:

# 23 S

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol 22A p-chloro-m-cresol 24A 2-chlorophenol 31A 2,4-dichlorophenol 34A 2,4-dimethylphenol	ND	41B 4-bromophenyl phenyl ether	ND
2A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	_ ND
4A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	_ ND
1A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	_ ND
4A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	_ ND
7 A Z-nitrophenoi	NTD	54B isophorone	
8A 4-nitrophenol 9A 2,4-dinitrophenol	ND	55B naphthalene	_ ND
QA 2,4-dinitrophenol	ND	56B nitrobenzene 61B N-nitrosodimethylamine	_ ND
∩ 4,0-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	_ ND
AA pentachlorophenol	ND	62B N-nitrosodiphenylamine	_ ND
5A phenol	ND	63B N-nitrosodi-n-propylamine	_ ND
<i></i>		66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	
B acenaphthene	ND	68B di-n-butyl phthalate	_ ND
p benzidine	ND	69B di-n-octyl phthalate	_ ND
B 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	_ סא
R hexachlorobenzene	ND	71B dimethyl phthalate	_ ND
2B hexachloroethane 8B bis(2-chloroethyl)ether	ND	72B benzo(a)anthracene	
gmbis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	
OR 2-chioronaphthalene	NTD.	74B 3.4-benzofluoranthene	ND .
spl,2-dichlorobenzene	NT)	75B benzo(k)fluoranthene	_ ND
6B1,3-dichlorobenzene	מא	76B chrysene	_ ND
7Bl-4-dichlorobenzene	. ND	77B acenaphthylene	
8B3.3'-dichlorobenzene	מא	788 anthracene	ND
7		78B anthracene	_ מא
6p2,6-dinitrotolucne	מא	SOR fluorene	ND
5B2.4-nini roto idence 6B2.6-dini troto lucne 7B1.2-dipheny lhydrazine	ND	818 phonanthrone	_ ND
(as azobenzene)	NTO	80B fluorene 81B phenanthrene 82B dibenzo(a,h)anthracene	_ ND
	MT	83B indeno(1,2,3-cd)pyrene	_ ND
OB4-chlorophenyl phenyl other_	ND	84B pyrene	WD

⁼ less than a detection limit of 10 ug/L ND = not detected

# PESTICIDE/HERB ICIDE REPORT FORM

Sample ID LIW 235	CAP BAPE	es id 8204291
	SATIFICATION Alique	ot analyzed 18.
Date Received 4/20-Ez	SAFIFICATION Alique SAFIFICATION Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	
Alpha BHC	0.002	
Beta BHC	¢.004	
Delta BHC	D-004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	C.C12	
DDE	0.666	
DDT	c.016	
Dieldrin	C.UTG	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	c.00Z	
Heptachlor epoxide	c.cc4	
Methoxychlor	0.02	
Toxaphene	C.46	
2,4,D	0.001	
2,4,5,T	ocei	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well # 235		es id <u>&amp; 25933</u>
UE Clellan AFB	<u>A</u> liqu	ot analyzed 12
Date Received 13August 82	Detector Used:	Coulson, Flame, PIL
Date analyzed 3/ Aug 82	Chemist HF	Approved
·	Detection Limits (PPO)	Found (ppb)
Aldrin	0.003	
Alpha BHC	9,902	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	0.034
Chlordane	0.04	
DOD (TOE)	0.012	
DOE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	· · · · · · · · · · · · · · · · · · ·
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	· ·
DBCP (Dibromochloro propane)		•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

no identitiable hurbicide peaks

·		
Sample ID Mc Clellan AFB		ES ID 820933
MW #23 S	Aliqu	not Analyzed /L
Date Received 13 August 1982	Detector Used	EC, Coulson, Flame, PID
Date Analyzed 31 August 1982	Chemist HF	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
	· <b>S</b>	

Not detected.

Aroclor 1260

### METALS REPORT FORM

Sample ID Mc Clellon AFB  MW #235  Date Received 29 April 1982  Date analyzed			,	ES_ID_ Aliquot analyzed	0629
		Chemist		Method Used	
Element	Code	Detection L Flame	imit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.025	
Arsenic	p,h,c,d,o		10	0.30	-
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5 -	0.1	L0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 }tota	1 1.04	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	0.33	
Gold		100	1		
Iron	đ į	100	1		
Lead	p,h,c,d,o	100	10	0.026	
Lithium		50	<del></del>		
Magnesium		1			
Manganese	đ	10	0.5		<del></del>
Mercury	p,h,c,d,o		0.5	0.0009	
Molybdenum	c	500	<del></del>		
Nickel	p,c,o	40	1	0.41	
Potassium		10			
Selenium	p,h,c,d		10	0.057	

10

64/18

- 45 -- 73 -- 1

Silicon

8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	·
Sodium		10			
Thellium	p,c,	<del></del>			5 - 5 - <b>5 - 4 - 14 - 14</b> - 15
Tin				e e e e e	
Vanadium	c		_		
Zine	p,c,d,o	5	0.05	11.4	

codes: p - EPA priority pollutant h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

4/28 sample

# California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

		Early Salara	CAL 140 A	10 1/1-1/1-1
CLIENT		Engineering Science	CAL_LAB I	10. <u>14545 - 1</u>
CLIENT	l.D	MW 245	·	
~		VOLATILES	ug/L or ug/	<u>/Kg</u>
	27	acrolein	NO	
_	3٧	acrylonitrile	<u>no</u>	
	47	benzene	no	
_	64	carbon tetrachloride	NO	
_	78	chlorobenzene	no	
_	100	1,2-dichloroethane	NO	
_	117	1,1,1-trichloroethane	MO	
_	137	1,1-dichloroethane	NO	
	144	1,1,2-trichloroethane	no	
_	150	1,1,2,2-tetrachloroethane	NO	
_	16V	chloroethane	NO	
_	197	2-chloroethylvinyl ether	NO	
_	23V	chloroform	MO	
	29V	1,1-dichloroethylene	NO	,
	30V	1,2-trans-dichloroethylene	NO	
	32 <b>V</b>	1,2-dichloropropane	MO	
_	33V	1,3-dichloropropylene	NO	
_	38V	ethyl benzene	NO	
_	447	methylene chloride	no	
-	45V	methyl chloride	NO	
-	46V	methyl bromide	NO	
_	47Y	branoform	10	
-	484	dichlorobromomethane	nn_	
_	49V	trichlorofluoromethane	<u> </u>	
_	50 <b>V</b>	dichlorodifluoromethane	M	
	517	chlorodibromomethane	nn	
_	85V	tetrachloroethylene	NO	
_	86V	toluene	NO	
-	87Y	trichloroethylene	no	ND = Not detected
	88Y	vinyl chloride	m	-



5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (816) 381-6105

CLIENT	- Enain	eering Science	CAL LAB	NO. <u>/5023-2</u>
CLIENT		#245		Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan
		VOLATILES	ug/L	
		<del></del>		
	27	acrolein	<u>na</u>	
	_3V	acrylonitrile	nd	
	47	benzene	na	
	<u>6V</u>	carbon tetrachloride	na	
	77	chlorobenzene	nd.	
	107	1,2-dichloroethane	<u>na</u>	
	117	1,1,1-trichloroethane	nd	
	137	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	_15V	1,1,2,2-tetrachloroethane	_nd	
	16V	chloroethane	nd_	
	197	2-chloroethylvinyl ether	nd	
	_23V	chloroform	nd	
	29٧	1,1-dichloroethylene	nd	
	_30V	1,2-trans-dichloroethylene	nd	
	32V	1,2-dichloropropane	nd	
	33V_	1,3-dichloropropylene	nd	
	_38V	ethylbenzene	nd	
	447	methylene chloride	nd	• .
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	<del></del>
	47V	bromoform	nd	
	487	dichlorobromomethane	nd	the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
	49V	trichlorofluoromethane	nd	en en en en en en en en en en en en en e
	50V	dichlorodifluoromethane	nd	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	517	chlorodibromomethane	nd	the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
	85V	tetrachloroethylene	not	* * * * * * * * * * * * * * * * * * *
	86V	toluene	nd	* = Less than 10 ug/L
	877	trichloroethylene	nd	ND = Not detected
	887	vinyl chloride	nx	en en en en en en en en en en en en en e
		1,1,2-trichloro-2,2,1-trifluoroethane		

# عود المرارية California Analytical Laboratories, Inc.

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 . (916) 444-9602

NT - Engineering Scien	re	CAL LAB NO. 14545 -	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	NO
22A p-chloro-m-cresol	NO	42B bis(2-chloroisopropyl)ether	11.8
24A 2-chlorophenol	NO	438 bis(2-chloroethoxy)methane	M
31A 2,4-dichlorophenol	NO	528 bexachlorobutadiene	M
34A 2,4-dimethylphenol	uo_	53B hexachlorocyclopentadiene	M
57A 2-mitrophenol	MO	54B isophorone	MY
58A 4-nitrophenol	<u>nn</u>	55B naphthalene	M
59A 2,4-dinitrophenol	<u> ND</u>	56B nitrobenzene	MI
60A 4,6-dinitro-o-cresol	NO	61B N-nitrosodimethylamine	117
64A pentachlorophenol	110	62B N-nitrosodiphenylamine	M
65A phenol	110	63B .N-nitrosodi-n-propylamine	M
		668 bis(2-ethylhexyl)phthalate	M
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	121
18 acenaphthene	MO	688 di-n-butyl phthelate	N
58 benziéine	W	698 di-n-octyl phthalate	N
88 1,2,4-trichlorobenzene	M	708 diethyl phthalate	N
98 hexachlorobenzene	ND	718 dimethyl phthalate	M
128 hexachloroethene	M	728 benzo(a)anthracene	
188 bis(2-chloroethyl)ether	M	738 benzo(a)pyrene	M
208 2-chloronophthelene	M	748 3,4-benzofluoranthene	
258 1,2-dichlorobenzene	140	758 benzo(k)fluoranthene	M
268 1,3-dichlorobenzene	un	76B chrysene	N.
278 1,4-dichlerobenzene	NO	77B acenaphthylene	M
288 3,3'-dichlorobenzidine	un	788 anthracene	N
358 2,4-dimitrotoluene	no	79B benzo(ghi)perylene	N.
368 2,6-dimitrotoluene	un	80B fluorene	n
378 1,2-diphenylhydrazine		818 phenanthrene	M
(as azobenzene)	no	828 dibenzo(a,h)anthracene	11,
398 fluoranthene	MD	838 indeno(1,2,3-cd)pyrene	n
408 4-chlorophenyl phenyl ether	NO	84B pyrene	IN

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#### 5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

ENT <u>Engineering</u> Science		CAL LAB NO. 15023-2
		CLIENT I.D. <u>245 √</u>
ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS 19/2
2TA 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether //
22A p-chloro-m-cresol	<u> </u>	42B bis(2-chloroisopropyl)ether //
24A 2-chlorophenol	<u> </u>	438 bis(2-chloroethoxy)methane //
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene N
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene M
57A 2-nitrophenol	ND	54B isophorone N
58A 4-nitrophenol	ND	55B naphthalene N
59A 2,4-dinitrophenol	ND	56B nitrobenzene //
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine N
64A pentachlorophenol	260	62B N-nitrosodiphenylamine /
65A pheno1	ND	63B .N-nitrosodi-n-propylamine /
		66B bis(2-ethylhexyl)phthalate
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate A
1B acenaphthene	ND	688 di-n-butyl phthalate /
5B benzidine	ND	69B di-n-octyl phthalate //
8B 1,2,4-trichlorobenzene	ΔN	708 diethyl phthalate M
9B hexachlorobenzene	ND	71B dimethyl phthalate N
128 hexachloroethane	ND	72B benzo(a)anthracene //
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene //
208 2-chloronaphthalene	QN	74B 3,4-benzofluoranthene /
258-1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene N
268 1,3-dichlorobenzene	ND	76B chrysene N
278 1,4-dichlorobenzene	ND	77B acenaphthylene N
288-3,3'-dichlorobenzidine	ND	78B anthracene N
35R 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene N
368-2-6-dinitrotoluene	ND	80B fluorene //
378 1,2-diphenylhydrazine	_	818 phenanthrene
(as azobenzene)	<u>₩</u> ∑	82B dibenzo(a,h)anthracene
398 fluoranthene	$\overline{N}$	83B indeno(1,2,3-cd)pyrene
408 4-chlorophenyl phenyl ether	ND	848 pyrene //

# PESTICIDE/HERBICIDE REPORT FORM

Sample ID Mic 245	al page	ES ID <u>F2C621</u>
	DIE ATIEN Aliqu	ot analyzed
Date Received 4/29-57 67  Date analyzed	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	€33.3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	ti.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	C.012	·
DDE	0.006	
DDT	c.01L	
Dieldrin	C.016	
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.CCZ	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	
2,4,5,T	0001	
2,4.5 TP (Silvex)	0.002	·
DBCP (Dibromochloro propane)		
	· · · · · · · · · · · · · · · · · · ·	

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClellan AFB	ES ID <u>62493</u>			
Nell # 24S	Aliqu	ot analyzed		
Date Received	Detector Used:	Coulson, EC, Flame, PID		
Date analyzed	Chemist #F	Approved		
	Detection Limits(ppb)	Found (ppb)		
Aldrin	0.003			
Alpha BHC	0.002			
Beta BHC	0.004			
Delta BHC	0.004		3	
Gamma BHC (lindane)	0.002		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Chlordane	0.04		den titab	
DDD (TDE)	0.012		2 2	
DDE	0.006		à	
DDT	0.016		pre	
Dieldrin	0.006			
Endosulfan I	0.005		1	
Endosulfan II	0.01			
Endosulfan sulfate	0.03		Ş (	
Endrin	0.009			
Heptachlor	0.002		1	
Heptachlor epoxide	0.004			
Methoxychlor	0.02			
Toxaphene	0.40			
2,4,D	0.001			
2,4,5,T	0.001	- 6.027		
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)				

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ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB		ES ID &20935
mu) #245	Aliqu	ot Analyzed /L
Date Received Date Analyzed	Detector Used:	EC, Coulson, Flame, PID Approved
****	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		<del></del>
Aroclor 1232	·	
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

#### METALS REPORT FORM

Element	Code	Detection L	imit (ppb) Flameless	Detected	Limit
Date analyzed		Chemist Approved			
Date Received	29 April 1982			Method Used	
MW 245				Aliquot analyzed	
Sample ID McC				ES ID	0631

		Detection	Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.008	
Arsenic	p,h,c,d,o		10	<b>LO.05</b>	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	LO.01	
Calcium		50	444		
Chromium (+3)	p,h,c,d,o	20	1 ?tota	1 20.05	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>&lt;0.05</b>	· · · · · · · · · · · · · · · · · · ·
Gold .		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>&lt;0.01</b>	
Lithium		50	***		
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0016	
Molybdenum	e	500	***		
Nickel	p,c,o	40	1	<u> </u>	
Potassium		10	***		
Selenium	p,h,c,d		10	<0.01	
Silicon		10			

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8/27/82

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Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<b>40.05</b>	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	0.04	

___codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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### California Analytical Laboratories, Inc.

#### SSSS POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 49193 391-5105 .....

#### PRIORITY POLLUTANT DATA SHEET

CAL LAB NO. 14772-12 Chaineesina cince CLIENT I.D. 4 VOLATILES ug/L nd acrolein 24 acrylonitrile nd 37 benzene nd 4٧ carbon tetrachloride nd 67 chlorobenzene **7**¥ nd 1,2-dichloroethane 107 nd 1.1.1-trichloroethane 117 nd 1,1-dichloroethane 137 nd 1,1,2-trichloroethane 144 nd: 1.1.2.2-tetrachloroethane nd 157 167 chloroethane Md 2-chloroethylvinyl ether 197 nd chloroform 237 nd 1,1-dichloroethylene 297 nd 1,2-trans-dichloroethylene **30V** Nd 1.2-dichloropropane **32**¥ nd 1,3-dichloropropylene 337 nd ethy1benzene nd **38V** methylene chloride · nd 447 methyl chloride **45V** nd methyl bromide nd **46V** bromoform Md 477 dichlorobromomethane 487 trichlorofluoromethane nd 497 dichlorodifluoromethane **50V** nd chlorodibromomethane 517 nd **85V** tetrachloroethylene nd 861 toluene nd * = Less than 10 ug/L ND = Not detected trichloroethylene 877 vinyl chloride **88**V 1,1,2-trichloro-2,2,1-trifluoroethane

21.2

5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 49183 381-6105 ....

#### PRIORITY POLLUTANT DATA SHEET

CLIENT Engineering CAL LAB NO. 15023-3 Decence VOLATILES ug/L nd 27 acrolein acrylonitrile 3٧ benzene carbon tetrachloride 78 ch1orobenzene 1.2-dichloroethane 107 1,1,1-trichloroethane 117 1,1-dichloroethane 137 1,1,2-trichloroethane 147 1,1,2,2-tetrachloroethane 157 chloroethane 167 2-chloroethylvinyl ether 197 chloroform 237 na 1,1-dichloroethylene 297 1.2-trans-dichloroethylene **30V** 1.2-dichloropropane **32V** 1,3-dichloropropylene **33**V ethylbenzene **38V** methylene chloride 447 methyl chloride 45V 46V methyl bromide bromoform 477 dichlorobromomethane 487 trichlorofluoromethane 497 dichlorodifluoromethane **50V** chlorodibromomethane 517 tetrachloroethylene **85V** toluene **86V** * = Less than 10 ug/L ND = Not detected trichloroethylene **87**¥ vinyl chloride 887 1,1,2-trichloro-2,2,1-trifluoroethane

401 NORTH 10IN STREET SAGRAMENTO, CALIFORNIA 95#14

PRIORITY POLLUTANT DATA SHEET JAF				
INT Engineering Science	/	CAL LAB NO. 147.72		
		CLIENT I.D. MW25		
ACID COMPOUNDS	μ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>	
21A 2.4.6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd	
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropy1)ether	nd	
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd	
31A 2.4-dichlorophenol	nd	52B bexachlorobutadiene	nd	
34A 2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene	nd	
57A 2-mitrophenol	nd	54B isophorone	nd	
58A 4-ni trophenol	nd		nd	
59A 2,4-dinitrophenol	nd	568 nitrobenzene	nd	
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd	
64A pentachlorophenol	nd	628 N-nitrosodiphenylamine	nde	
65A phenol	<u>nd</u>	63B .N-nitrosodi-n-propylamine	nd	
		668 bis(2-ethylhexyl)phthalate	nd	
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	nd	
'8 acenaphthene	nd	688 di-n-butyl phthalate	nd	
58 benzidine	nd	'69B di-n-octyl phthalate	M	
88 1,2,4-trichlorobenzene	nd	708 diethyl phthalete	Nd	
98 hexachlorobenzene	nd	718 dimethyl phthalate	nd	
128 hexach] proethene	nd	728 benzo(a)anthracene	na	
188 bis(2-chloroothyl)ether	nd	738 benzo(a)pyrene	nd	
20B 2-chlereneghthelene	nd	748 3,4-benzofluoranthene	na	
258 1,2-dichlerobenzene	nd	758 benzo(k)fluoranthene	nd	
26B 1,3-dichlorabenzene	nd	768 chrysene	nd	
278 1,4-dichlerobenzene	nd	77B acenaphthylene	nd	
288 3,3'-dichlorobenzidine	nd	788 anthracene	nd	
358 2,4-dinitrotoluene	nd	798 benzo(ghi)perylene	nd	
368 2,6-dinitrotoluene	nd	80B fluorene	nd	
378 1,2-diphenylhydrazine		818 phenanthrene	nd	
(as azobenzene)	nd	828 dibenzo(a,h)anthracene	nd	
398 fluoranthene	nd		nd	
408 4-chlorophenyl phenyl ether	nd	848 pyrene	nd	

#### 5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

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CLII	ENT <u>Engineering</u> Science		CAL LAB NO. 15023-3
	<del>- y</del>	<del></del>	CLIENT 1.D. 255
	ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS µg/L
	21A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether ND
	22A p-chloro-m-cresol		428 bis(2-chloroisopropyl)ether ND
	24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane ND
	31A 2,4-dichlorophenol	(N)	52B bexachlorobutadiene ND
	34A 2,4-dimethylphenol	<u>ND</u>	53B hexachlorocyclopentadiene ND
	57A 2-nitrophenol	ND	548 isophorone ND
	58A 4-nitrophenol	(IM	558 naphthalene ND
	59A 2,4-dinitrophenol	NĎ	56B nitrobenzene ND
	60A 4,6-dinitro-o-cresol	<u> ND</u>	61B N-nitrosodimethylamine ND
	64A pentachlorophenol	ND	62B N-nitrosodiphenylamine ND
	65A pheno1	<u></u>	63B .N-nitrosodi-n-propylamine ND
			66B bis(2-ethylhexyl)phthalate Ni
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate ND
	1B acenaphthene	<u> </u>	68B di-n-butyl phthalate ND
	5B benzidine	NĎ	69B di-n-octyl phthalate ND
	8B 1,2,4-trichlorobenzene	ND	708 diethyl phthalate ND
	9B hexachlorobenzene	ND	718 dimethyl phthalate ND
! •	12B hexachloroethane	NI)	72B benzo(a)anthracene 💢 🔻
•	18B bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene ND
•	20B 2-chloronaphthalene	_NI)	74B 3,4-benzofluoranthene ND
:	258. 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene ND
:	26B. 1,3-dichlorobenzene	ND	76B chrysene
	27B 1,4-dichlorobenzene	NÛ	778 acenaphthylene ND
	288 3,3'-dichlorobenzidine	Ni)	788 anthracene
•	35B 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene ND
	36B 2,6-dinitrotoluene	Nî	808 fluorene ND
	378 1,2-diphenylhydrazine		818 phenanthrene
	(as azobenzene)	- NO	828 dibenzo(a,h)anthracene NI
	39B fluoranthene	<u>*</u>	838 indeno(1,2,3-cd)pyrene N
	40B 4-chlorophenyl phenyl ether	ND	848 pyrene
	of the first of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID MU 255		ES ID 920792		
6/5-82	Aliquot analyzed			
Date Received 6/24-82	Detector Used:	Coulson, EC, Flame, PI		
Date analyzed	Chemist LIB	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	C. C:03			
Alpha BHC	0.002			
Beta BHC	0.004			
Delta BHC	D-004			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DOD (TDE)	C.012			
DDE	0.006-			
DDT	c 516			
Dieldrin	1.116			
Endosulfan I	¢.05			
Endosulfan II	0.01			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	C.00Z	c.32		
Heptachlor epoxide	0.664			
Methoxychlor	C.C2			
Toxaphene	C.AC			
2,4,D	0.001			
2, 4, 5, T	ocei			
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well #255	es 10 <u>620937</u>				
Us Clellan AFB	Aliquot analyzed				
Date Received 13 August 198	Detector Used:	Coulson, © Flame, PID			
Date Received 13 August 1989  Date analyzed 30 Aug 82	Chemist HF	ybbloneq			
	Detection Limits(ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	9,002	7			
Beta BHC	0.004				
Delta BHC	0.004	i di			
Gamma BHC (lindane)	0.002	dentificht			
Chlordane	0.04				
DOD (TOE)	0.012				
DDE	0.006				
DDT	0.016	5			
Dieldrin	0.006	er ken			
Endosulfan I	0.005				
Endosulfan II	0.01	3)			
Endosulfan sulfate	0.03				
Endrin	0.009	. 3			
Heptachlor	0.002	· (i)			
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	0.40				
2,4,D	0.001				
2,4,5,T	0.001				
2,4,5 TP (Silvex)	0.002	<u> </u>			
DBCP (Dibromochloro propane)		£.			

engineering-science - Berkeley Laboratory

- 2-341

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	Detector Used: EC Coulson, Flame, PII  Chemist HF Approved		
mu) #255	Aliqu	ot Analyzed /L	
Date Received 13 August 1982 Date Analyzed 30 August 1982			
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260			

. Not detected.

### METALS REPORT FORM

Sample ID McC				ES ID Aliquot analyzed	820792
Date Received Date analyzed	24 June 1982	Chemis	it	Method UsedApproved	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum	·	500	50		
Antimony	p,c	500	10	L0.005	•
Arsenic	p,h,c,d,o		10	<b>40.05</b>	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	- 0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	17	tal <0.05	
Chromium (+6)	c		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	ī	<0.05	
Gold		100	1		
Iron	d	100	1		
Leed	p,h,c,d,o	100	10	<0.01	
Lithium		50	-		
Magnesium		1	959		
Manganese	ď	70	0.5		
Mercury	p,h,c,d,o		0.5	<0.0005	
Molybdenum	c	500			
Nickel	p,c,o	40	1	<0.05	<del></del>
Potassium		10		·	
Selenium	p,h,c,d		10	<0.01	
Silicon		10		· · · · · · · · · · · · · · · · · · ·	

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8/27/82

2-343

	Detection Limit (ppb)			****	
Element	Code		Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	L0.05	
Sodium		10			
Thallium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.032	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15015-3 CLIENT I.D.: 26S

PP#	VOLATILES	ug/L
2 <b>V</b>	acrolein_ acrylonitrile	ND
3V	acrylonitrile	ND
47	benzene	ND
6V	benzene carbon tetrachloride	ND
7V	CUTOLOBEUSEUE	MT
107	1 1 2 - 2 7 CH TOT OF CHANG	NII
117	I.I.I-TT1CDIOPOSTDSDS	100
137	1,1,-dichloroethane 1,1,2-trichloroethane 1,1,2,2-tetrachloroethane	ND
147	1,1,2-trichloroethane	ND
157	1,1,2,2-tetrachioroethane_	ND
16V	chloroethane 2-chloroethylvinyl ether	ND
19V	chloroform	ND
23V	chloroform  1,1-dichloroethylene  1,2-trans-dichloroethylene	ND ·
29V	1 2-trans-dichlorouthylene	ND
30V	1,2-dichloropropane	ND
32V	1,3-dichloropropylene	ND
33V	ethylbenzene	ND
387	ethylbenzene methylene chloride	ND
447	methyl chloride	ND
45V 46V	MACUAT DECETOR	NIT.
40 V 47 V	bromoform dichlorobromomethane	WD
47V 48V	dichlorobromomethane	MD MD
49V	CLICHIOLOLIUDECHANG	
- 500	dichlorodifluoromethane	
517	CDIOLOGIDLOMOMETURDE	M
85V	<b>tetrachloroethylene</b>	1170
86V	toluene	UND
877	toluene trichloroethylene	ND
88V	* less than lOug/L	ND
	* less than 10ug/L	
	MD- not detected	

COMMENTS:

ANTHONY S. WONG, Ph.D. VICE PRESIDENT

RUBY A. ULRICH SECRETARY/TREASURER

### California Analytical Laboratories, Inc.

911

5806 POWER IMM ROAD SACRAMENTO, CALIFORNIA 55824 (918) 381-8105

#### PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT: ENGINEERING SCIENCE

CAL LAB NO.

15015-3

CLIENT I.D.: WELL 26S

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol		42B bis(2-chloroisopropy1)ether	ND
24A 2-chlorophenol	אַס	43B bis(2-chloroethoxy)methane	- ND
31A 2,4-dichlorophenol_	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol		53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	עא
58A 4-nitrophenol	MD	55B naphthalene	עט
58A 4-nitrophenol 59A 2,4-dinitrophenol	ND	56B mitrobenzene	ND
60A 4,6-dimitro-o-cresol		61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
	<u>-</u> _	bob bis(2-ethylhexyl)phthalate	עע
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	עא
1B acenaphthene	ND	68B di-n-butyl phthalate	עא
5B benzidine	ND	69B di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
9B hexachlorobenzene	MD ND	71B dimethyl phthalate	_ עא
12B hexachloroethane 18B bis(2-chloroethyl)ether	אס	72B benzo(a)anthracene	_ ND
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene		74B 3,4-benzofluoranthene	_ עע
25B 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	
26B 1,3-dichlorobenzene	ND	76B chrysene	_ ND
27B 1,4-dichlorobenzene	ND	77B acenaphthylene	_ ND
28B 3,3'-dichlorobenzene	ND	78B anthracene	_ עא
35B 2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	
36B 2.6-dinitrotoluene	ND	80B fluorene	_ ND
37B 1,2-diphenylhydrazine		81B phenanthrene	_ עא
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	_ ND
39B fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	_ ND
40B 4-chlorophenyl phenyl ether	ND	84B pyrene	_ אַ

^{# =} less than a detection limit of 10 ug/L
ND= not detected

### PESTICIDE/HERBICIDE REFORT FORM

o Park	ES ID EZCEAL
Alique Alique	ot analyzed
Detector Used:	Coulson, EC, Flame, PID
Chemist LIB	Approved
Detection Limits (ppb)	Found (ppb)
c. C·c-3	
0.002	
C.004	
C-004	
0.002	·
0.04	
C.012	
0.006	
ccil	
1.006	
0.005	·····
0.01	
0.03	
0.009	
c.ccz	
0.004	
0.62	
C.40	
0.001	
0001	
0.002	
	Detector Used:   Chemist

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ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID 26-5		ES ID 620794
6/16-EZ	Aliqu	ot analyzed 12.
Date Received 6/24-82	Detector Used:	Coulson, EC, Flame, PII
Date analyzed	Chemist <u>LIB</u>	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. c·c·3	0.165
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	D-004	
Gamma BHC (lindane)	0.002	C.C13
Chlordane	0.04	
DDD (TDE)	C.012	
DDE	0.006	
DDT	c.016.	
Dieldrin	C.CE6	
Endosulfan I	c.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.00Z	
Heptachlor epoxide	c.cc4	c.015
Methoxychlor	C.CZ	
Toxaphene	c.4e	
2,4,D	0.001	C CC3
2,4,5,T	0001	0.002
2,4,5 TP (Silvex)	0.00.2	0.404
DBCP (Dibromochloro propane)		

PROTECTION - REPRETEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClelky ATB		es id 826939
Nell # 265	Aliqu	ot analyzed
Date Received BANNIST 1982	Detector Used:	Coulson, EC, Flame, PID
Date analyzed 30 Aug 82	ChemistHF	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	·
Alpha BHC	0.002	0.035
Beta BHC	0.004	0.077
Delta BRC	0.004	· ·
Gamma BHC (lindame)	0.002	0.053
Chlordane	0.04	
DOD (TDE)	0.012	
DDE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	·
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	·
2,4,D	0.001	
-2,4,5,T	0.001	0.002
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB		ES ID 820939
MW # 265	Aliqu	not Analyzed /L
Date Analyzed 30 August 1982	Detector Used:	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

Not detected.

Sample ID McClellon
MW #265
Date Received 29 April 1922
9-41

es id <u>820641</u> Aliquot analyzed _____ Method Used _______Approved

Chemist ____

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.15	
Arsenic	p,h,c,d,o	<b></b>	10	1.00	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	0.132	
Calcium		50	~~~		
Chromium (+3)	p,h,c,d,o	20	1)cotal	0.5/	
Chromium (+6)	С		(ود		
Cobalt		50	1		
Copper	p,c,d,o	20	1	1.09	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	0.068	
Lithium		50	***		
Magnesium		1	<b>**</b> -		
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	1.0005	
Molybdenus	c	500			
Nickel	p,c,o	40	1	2.89	
Fotassium		10	400	· — · · · · · · · · · · · · · · · · · ·	
Selenium	p,h,c,d		10	6.244	
Silicon		10			<del></del>

64/18

8/27/82

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<0.05	
Sodium		10			
Thallium	p,c,			.,	·-
Tin					
Vanadium	С				
Zine	p,c,d,o	5	0.05	5.9	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

### METALS REPORT FORM

Sample ID McClellon AFB				ES ID	820794
mw = 26			•	Aliquot analyzed	
Date Received	24 June 1982		i	Method Used	
Date analyzed		Chemist	<del></del>	Approved	
	<del></del>				
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 ?tota	21 <0.05	
Chromium (+6)	c	`	70)		
Cobalt.	. •	<b>- 50</b> .	1	-	
Copper	p,c,d,o	20	ı	<b>&lt;0.05</b>	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	40.01	
Lithium		50	***		
Magnesium		1	<b>47.0</b>		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	L0.0005	
Molybdenus	c	500			
Nickel	p,c,o	40	1	LO.05	
Potassium		10			
Selenium	p,h,c,d		10	L0.01	
Silicon		10			

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8/27/82

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Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	• 1	20.05	
Sodium		10			
Thallium	p,c,			and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	
Tin		-			
Vanadium	c			gaglery and gallered to substantials ( ) is the second of	
Zine	p,c,d,o	5	0.05	40.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

- σ - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

64/18

والمعاومة ويدر

8/27/82

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

PRIORITY POLLUTANT DATA SHEET						
CLIENT		Engineering Science	CAL LAB NO	- 4		
CLIENT	1.0.	"MW 275	Name of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco			
		VOLATILES	ug/L or ug/Kg	• • •••		
	_2 <b>Y</b>	acrolein	<i>NO</i>			
	_3V	acrylonitrile	no			
	4٧	benzene				
	_6V	carbon tetrachloride				
	7٧	chlorobenzene	<u> po</u>			
	100	1,2-dichloroethane	RO			
	117	1,1,1-trichloroethane	no			
	137	l,l-dichloroethane				
	144	1,1,2-trichloroethane	ni)			
	15V	1,1,2,2-tetrachloroethane	110			
	_16V	chloroethane	<u>no</u>			
	197	2-chloroethylvinyl ether	no			
	23V	chloroform	NO			
	297	1,1-dichloroethylene	no			
	30 <b>V</b>	1,2-trans-dichloroethylene	NO			
	32 <b>y</b>	1,2-dichloropropane	MO			
	_33V	1,3-dichloropropylene	120			
	_38V	ethylbenzene				
	447	methylene chloride	NO.			
	_45V	methyl chloride	<u> </u>			
	_46V	methyl bromide	no			
	479	bromoform	po			
	_48Y	dichlorobromomethane	NO			
	49V	trichlorofluoromethane	Mo			
	_50V	dichlorodifluoromethane	lan			
	517	chlorodibromomethane	IAD			
	85V	tetrachloroethylene	N			
	86V	toluene	M			
	877	trichloroethylene	ND = Not dete	cted		

vinyl chloride

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S886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 68188 381-6105

### PRIORITY POLLUTANT DATA SHEET

			<del></del>	
CLIENT		neering Science	CAL LAB NO	. 15023-5
		VOLATILES	<del>_</del> ug/L	
			4	
	_2V	acrolein	<u>na</u>	
	_3V	acrylonitrile	<u>nd</u>	
	47	benzene	nd,	
	<u>6V</u>	carbon tetrachloride	<u> </u>	
	_7٧	chlorobenzene	nd	
	107	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd	· · · · · · · · · · · · · · · · · · ·
	137	l,l-dichloroethane	nd	e a company and a company and a company and a company and a company and a company and a company and a company
	147	1,1,2-trichloroethane	nd	war and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco
	<u>15V</u>	1,1,2,2-tetrachloroethane	nd	was a way of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	* <	
	29V	1,1-dichloroethylene	nd	<del>- •</del>
	30V	1,2-trans-dichloroethylene	<del></del>	•
	32V	1,2-dichloropropane	nd	the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	33V	1,3-dichloropropylene	nd	<del></del>
	387	ethylbenzene	nd	
	447	methylene chloride	nd	• · · · · · · · · · · · · · · · · · · ·
	45V	methyl chloride	nd	•
	46V	methyl bromide	nd	· - · · · · · · · · · · · · · · · · · ·
	47٧	bromoform	nd	
	487	dichlorobromomethane	nd	
	497	trichlorofluoromethane	nd	e em e manager e e e e e e e e e e e e e e e e e e
	50V	dichlorodifluoromethane	nd	
	51V	chlorodibromomethane		······································
	85V	tetrachloroethylene	<u>nd</u>	nom i matematica e a grapo i agrandi e e e e e e e e e e e e e e e e e e e
			nd_	in manager of blooms are supplied to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of
	86V	toluene	710C * NE	= Less than 10 ug/L
	877	trichloroethylene	<del></del>	
	88y	vinyl chloride	nac mal	-
		1,1,2-trichloro-2,2,1-trifluoroethane		

9.926

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8882

ENT	Engineering So	rience-	CAL LAB NO	4
	I de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant	A erico	CLIENT I.D. Mw 2	<u>75</u>
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,	4,6-trichlorophenol	NO_	41B 4-bromophenyl phenyl ether	no
22A p-	chloro-m-cresol	M	428 bis(2-chloroisopropyl)ether	po
24A 2-	chlorophenol	140	438 bis(2-chloroethoxy)methane	110
31A 2,	4-dichiorophenoi	an	528 bexachlorobutadiene	110
34A 2,	4-dimethylphenol	MD	53B hexachlorocyclopentadiene	NO
57A 2-	ni tropheno l	10	548 isophorone	M
58A 4-	ni trophenol	no	55B naphthalene	MO
59A 2	4-dinitrophenol	NO	568 nitrobenzene	NO
60A 4	,6-dinitro-o-cresol	MO_	61B N-nitrosodimethylamine	M
64A p	entach   orogheno	10	62B N-nitrosodiphenylamine	1/11
65A p	henol	NO	63B , N-nitrosodi-n-propylamine	M
			66B bis(2-ethylhexyl)phthelate	M
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	n
'8 ac	enaphthene	NO	68B di-n-butyl phthalate	M
	nzidine	NO	698 di-n-octyl phthalate	114
	2,4-trichlorobenzene	NO	708 diethyl phthalate	JA.
	xach l orobenzene	no	718 dimethyl phthalate	14
	xach lorge thans	NO	728 benzo(a)anthracene	M
	s (2-chloroethy 1) ether	MO	738 benzo(a)pyrene	IN
	-chloromaphthalene	no	748 3,4-benzofluoranthene	N
	2-dichlorobenzene	NO	758 benzo(k)fluoranthene	
. —	.3-dichlorobenzene	no_	768 chrysene	
	4-dichlorobenzene	MO	778 acenaphthylene	
	,3'-dichlorobenzidine	, NO-	788 anthracene	μ
	4-dimitrataluene	no	798 benzo(ghi)perylene	- 1/4
	,6-dinitrotoluene	NO	80B fluorene	M
	.2-diphenylhydrazine		818 phenanthrene	[N
	as azobenzene)	<u> </u>	828 dibenzo(a,h)anthracene	- 18
398 f	luoranthene	NO	83B indeno(1,2,3-cd)pyrane	A
40B 4	-chlorophenyl phenyl ether	r ND	848 pyrene	N

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5866 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

			CALLAD NO. 15022 5
LIENT	Engineering Science	<del></del>	CAL LAB NO. 15023-5 CLIENT I.D. Well 275
	ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS 19/L
21	A 2,4,6-trichlorophenol	md	418 4-bromophenyl phenyl ether na
22	A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether no
24	A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane no
31	A 2,4-dichlorophenol	nd	52B bexachlorobutadiene no
34	A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene no
<b>5</b> 7	7A 2-nitrophenol	nd	54B isophorone na
58	BA 4-nitrophenol	na	558 naphthalene no
59	A 2,4-dinitrophenol	nd	56B nitrobenzene no
60	DA 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine Na
64	A pentachlorophenol	1201	628 N-nitrosodiphenylamine 70
65	5A phenol	nd	63B .N-nitrosodi-n-propylamine no
7 =			66B bis(2-ethylhexyl)phthalate no
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate no
18	3 acenaphthene	on d	688 di-n-butyl phthalate no
- <u></u> 58	على الشروب بين التي يسيد اليومية ل _{ي ال} واليات التي التي التي التي التي التي التي	nd	698 di-n-octyl phthalate no
88		nd	70B diethyl phthalate na
<u></u> 98	سوا الفريس ويورون ويورون والمسالي في المسال والمسال والمسال والمسال والمسال والمسال والمسال والمسال	nd	718 dimethyl phthalate no
-	2B hexachloroethane	nd	72B benzo(a)anthracene No
_	BB. bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene no
	DB 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene na
	5B 1,2-dichlorobenzene	nd	75B benzo(k)fluoranthene 70
	58_1,3-dichlorobenzene	nd	76B chrysene 200
	78 1.4-dichlorobenzene	nd	778 acenaphthylene 20
_	BB 3,3'-dichlorobenzidine	nd	788 anthracene no
_	58 2,4-dinitrataluene	nd	79B benzo(ghi)perylene No
-	68 2,6-dinitrotoluene	nd	80B fluorene no
_	ZB_1_2_dipheny1hydrazine		818 phenanthrene na
	(as azobenzene)	nd	828 dibenzo(a,h)anthracene no
3	98 fluoranthene	nd	838 indeno(1,2,3-cd)pyrene no
4	OB 4-chlorophenyl phenyl ether	nd	848 pyrene 700

## PESTICIDE/HERBICIDE REPORT FORM

Sample ID 110 275	Aliquot analyzed 11.				
Date Received 6/24-82	Detector Used	: Coulson, EC, Flame, PID			
Date analyzed	Chemist <u>UB</u>	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	c. c·c>	4.95			
Alpha BHC	0.002				
Beta BHC	0.004	·			
Delta BHC	Ö.004				
Gamma BHC (lindane)	0.002		••		
Chlordane	: 0.04				
DDD (TDE)	C.012				
DDE	0.006				
DOT	C.016.	-			
Dieldrin	(.006				
Endosulfan I	6.05				
Endosulfan II	0.61				
Endosulfan sulfate	0.03				
Endrin	0.009				
Reptachlor	C.CCZ				
Heptachlor epoxide	C.CC4		المتصفة والتا لوسولوس		
Methoxychlor	0.62				
Toxaphene	C.4C				
2,4,D	0.001	]	معادي مري		
2, 4, 5, T	OCCI	> sample lost	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)					

engineering-science – Berkeley Laboratory

-9-323

### PESTICIDE/HERBICIDE REPORT FORM

sample in UECklan		ES ID <u>820941</u>	
Well # 275	Aliqu	oot analyzed	
Date Received 13August 1982	Detector Used:	Coulson, EC, Flame, PID	
Date analyzed 31 Aug 82	Chemist HF	Approved	
	Detection Limits(ppb)	Found (ppb)	
Aldrin	0.003		·
Alpha BHC	0.002	22	
Beta BHC	0.004		
Delta BHC	0.004		8
Gamma BHC (lindane)	0.002		<b>.</b>
Chlordane	0.04		entra
DDD (TDE)	0.012	-	25
DOE	0.006		<i>K</i>
DDT	0.016	·	E
Dieldrin	0.006		· - 3- · · · · · · · ·
Endosulfan I	0.005	· · · · -	7
Endosulfan II	0.01	 	à
Endosulfan sulfate	0.03		7
Endrin	0.009	·	<b>Ž</b>
Heptachlor	0.002		<i>№</i>
Heptachlor epoxide	0.004	<del>.</del>	· · · · · · · · · · · · · · · · · · ·
Methoxychlor	0.02		eres manageres a quant
Toxaphene	0.40	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
2,4,D	0.001		
2, 4, 5, T	0.001	0.002	
2,4,5 TP (Silvex)	0.002		
DBCP (Dibromochloro propane)			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Seeple ID Mc Clellan AFB	Aliqu	ES ID <u>\$2094/</u> not Analyzed /L
Date Received 13 August 1982 Date Analyzed 31 August 1982	Detector Used:	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

Not detected.

### METALS REPORT FORM

SEEDIE IN MICCIETION AFO				E3 1	D 000775	
Thw #275		Aliquot an			nalyzed	
Date Received	24 June 1982		Ma	thod Used		
Date analyzed		Chemist		Approve	· ·	
Elesent	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit_	
Aluminum		500	50			
Antimony	p,c	500	10	LO.005		
Azsenic	p,h,c,d,o		10	L0.05	Consumer and the second	
Barium	h,c,d	1,000	5			
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	40.01		
Calcius		50			<u> </u>	
Chromium (+3)	p,h,c,d,o	20	1 Itotal	<0.05		
Chromium (+6)	c	***	70		- Lagrange L	
Cobalt		50	<u>1</u>	· ·	 	
Copper	p,c,d,o	20	1	L0.05		
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	∠0.01		
Lithium		50				
Magnesium		1				
Manganese	đ.	10 .	0.5			
Mercury	p,h,c,d,o		0.5	0.0017		
Molybdenum:	c	500				
Nickel	p,c,o	40	1	40.05		
Potassium		10				
Selenium	p,h,c,d	444	10	<b>&lt;0.01</b>		
Silicon		10				

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8/27/82

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Element	Code	Detection	Flameless	Detacted	Limit	_
Silver	p,h,c,d,o	50	l	20.05		-
Sodium -		10				-
Thallium	p,c,					
Tin	<del></del>			man of a residence expenses of a second	nak kan ili kali kan sa alayar magani Ampanika alammadi k	<del>-</del> 
Venedium.	c			pangan kiti mempenan tanggalan dalah kani si m	and the second second	
Zinc	p,c,d,o	5	0.05	40.02	o de sepo de servicio	• • • • • • • • • • • • • • • • • • •
"Andes" n " EP	A priority po	llurant				
h - EP	A hazardous w	este				
d - Ca	. Dept. Healt: A drinking wa	h Services   ter	nazardous waste			
o - 0c	sem waters of	California			•	
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ENGINEERING-SCIENCE - BERKELEY LABORATORY

### 5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824

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	2٧	acrolein	ind	· · · · · · · · · · · · · · · · · · ·
	3٧_	acrylonitrile	ind	
	4٧	benzene	nd	
	6V	carbon tetrachloride	nd	
	7٧	chlorobenzene	nd	
	10 <b>V</b>	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd.	
·	13V	1,1-dichloroethane	nd	
·	14V	1,1,2-trichloroethane	nd	
•	15V	1,1,2,2-tetrachloroethane	nd	
•	16V	chloroethane	- 71d-	
•	197	2-chloroethylvinyl ether	nd	
•	23 <b>V</b>	chloroform	nd	
•	297	1,1-dichloroethylene	nd	
•	30 <b>V</b>	1,2-trans-dichloroethylene	nd	
•	32V	1,2-dichloropropane	nd.	
	337	1,3-dichloropropylene	nd	
•	38V	ethylbenzene	- nd	
•	.447	methylene chloride	nd.	
•	45V	methyl chloride	nd	
·	46V	methyl bromide	nd	
·	477	bromoform	nd	
·	487	dichlorobromomethane	nd	
	497	trichlorofluoromethane	nd	
	50Y	dichlorodifluoromethane	nd	
·	517	chlorodibromomethane	nd	
•	85V	tetrachloroethylene	nd	
•	86V	toluene	nd	* = Less than 10 ug/L
•	877	trichloroethylene	nd	ND = Not detected
•	887	vinyl chloride	nd	÷ •
,		1,1,2-trichloro-2,2,1-trifluoroethane		•

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

nd 418 nd 428 nd 438 nd 528 nd 538 nd 548 nd 568 nd 618 nd 628 nd 638 nd 638 nd 638 nd 698 nd 698 nd 708	bis(2-chloroisopropy))ether bis(2-chloroethoxy)methane bexachlorobutadiene hexachlorocyclopentadiene isophorone naphthalene nitrobenzene N-nitrosodimethylamine N-nitrosodiphenylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate	7 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d
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nd 548 nd 558 nd 568 nd 628 nd 638 nd 638 nd 668 nd 688 nd 698 nd 708	isophorone naphthalene nitrobenzene N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	nd nd nd na na na na na na na na na na na
71d 558 71d 568 71d 618 71d 628 71d 638 71d 688 708 708	naphthalene nitrobenzene N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na na na na na
nd 568 nd 618 nd 628 nd 638 668 678 nd 688 nd 698 nd 708	nitrobenzene N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na na na na na
nd 618  nd 628  nd 638  668  678  nd 688  nd 698  nd 708	N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na na na na
nd 62B nd 638 668 678 nd 698 nd 708	N-nitrosodiphenylamine .N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na na na
nd 638 668 678 nd 688 nd 708	N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na na
1068 678 106 108 108 108 108 108 108 108 108 108 108	bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-butyl phthalate di-n-octyl phthalate	na na na
nd 688 nd 698 nd 708	di-n-butyl phthalate di-n-octyl phthalate	na na
nd 688 nd 698 nd 708	di-n-butyl phthalate di-n-octyl phthalate	na
nd 698 nd 708	di-n-octyl phthalate	no
nd 698 nd 708		no
$\frac{708}{718}$	diethyl phthalate	n
710		
I Like	dimethyl phthalate	na
nd 72B	benzo(a)anthracene	no
nd 738	benzo(a)pyrene	ma
nd 748	3,4-benzofluoranthene	n
nd 758		no
76R	chrysene	na
770	acenaphthy lene	20
700	anthracene	na
700	benzo(ghi)perylene	n
, one	fluorene	200
818	phenanthrene	no
21d 828	dibenzo(a,h)anthracene	na
<u>nd</u> 838		n
	778 788 788 798 798 798 798 798 798 798	778 acenaphthylene 788 anthracene 798 benzo(ghi)perylene 808 fluorene 818 phenanthrene 828 dibenzo(a,h)anthracene

Control Park

### PESTICIDE/HERBICIDE REPORT FORM

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6/16-82	Aliquot analyzed 11.		
Date Received 6/24-82			•
		Coulson, EC, Flame, PID	)
Date analyzed	Chemist	Approved	
	Detection Limits (ppb)	Found (ppb)	_
ldrin	c. c:c-3	0.61	_
ipha BHC	0.002		-
eta BHC	0.004		•
elta BRC	Ö-004	. 10.	•
Namma BHC (lindane)	0.002		
Thlordane	0.04		ı
DDD (TDE)	C.012		· <u>-</u>
DDE	0.006		
DOT	c.016.	The Company of the Control	• 
Meldrin			
ndosulfan I	C.886		
mdosulfan II	6.005	·	
Mndosulfan sulfate	0.01	<del></del>	
ndria.	0.03		
	0.009		
Mentachlor	C.00Z		-
eptachlor epoxide	0.004	0.17	-
ethoxychlor	0.02		
Coxaphene	C.40		
1,4,D	0.001	0.014	
,4,5,T	0001	C-L-C2	
,4,5 TP (Silvex)	0.002		
BCP (Dibromochloro propane)		a de comme de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya de la companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya	an maga sa sa sa saga - saga

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### METALS REPORT FORM

Sample ID McClellon AFB

MW # 28S

Date Received 24 June 1982

Date analyzed

ES ID 820795
Aliquot analyzed
Method Used

Chemist		Approved	
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		Detection	Limit (ppb)	_	
Element	Code	Flane	Flameless	Detected	Limit
luminum -		500	50		
intisony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	40.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>LO.01</b>	
Calcium		50		·	
Chromium (+3)	p,h,c,d,o	20	1 ?tota	1 60.05	
Chromium (+6)	c		10	***************************************	
Cobelt		50	1		*
Copper	p,c,d,a	20	1	20.05	-
Gold		100	1		
Irou	d	100	1		
Lead	p,h,c,d,o	100	10	(0.01	
Lithium		50		-	
Magnesium		1			
Manganese.	d	10	0.5		
Mercury	p,h,c,d,o		0.5	L0.0005	*
Molybdenus	c	500		e fortimise is a superior and a superior	
Nickel	p,c,o	40	1	L0.05	
Potassium		10			
Selenium	p,h,c,d		10	L0.01	
Silicon		10			

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8/27/82

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		Detection	n Limit (ppb)		
Element	Code	Flame	Flameless .	Detected	Limit
ilver	p,h,c,d,o	50	1	<b>40.05</b>	
odius		10			
hallium	р,с,				
lin					
Vanadium	e				
line	p,c,d,o	5	0.05	0.052	
h - E1 c - Ca d - E1	PA priority po PA hazardous w L. Dept. Healt PA drinking wa Lean waters of	sste h Services 1 ter	hazardous waste		
		<b>GETTION WIE</b>		<b></b>	
and against the temperature and approximate the second					
من المنافق الأمياء (12 دمايية المنا				and a second of the second	
<del>-</del>			<del></del>	in the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l
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and a contract of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o				- Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	
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engineering-science – Berkeley Laboratory

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8/27/82

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4/29 MARIEW

## California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT	E	MW 295	CAL LAB NO.	14536 -12
CLIENT	I.D	mw 295		· · · · · · · · · · · · · · · · ·
e i de discontinue des A	-	VOLATILES	ug/L or ug/Kg	
	24	acrolein	nn	
	3V	acrylonitrile	120	
	47	benzene	M	
	6 <b>V</b>	carbon tetrachloride	nn	
	7٧	chlorobenzene	ND	
	100	1,2-dichloroethane	NO	
	117	1,1,1-trichloroethane	120	
	137	1,1-dichloroethane	M	
	14V	1,1,2-trichloroethane	No	
	15V	1,1,2,2-tetrachloroethane	IND	
	16V	chloroethane	NO	
	190	2-chloroethylvinyl ether	NO	
	237	chloroform	po	
	29V	1,1-dichloroethylene	IND	
	307	1,2-trans-dichloroethylene	100	
	32 <b>y</b>	1,2-dichloropropane	MD	
	33V	1,3-dichloropropylene	nn	
	38V	ethylbenzene	no	
	447	methylene chloride	Mo	
	45V	methyl chloride	pro	
	46V	methyl bromide	Mos	
	47V	bromoform	M	
	487	dichlorobromomethane	No	·
	497	trichlorofluoromethane	No	
	50V	dichlorodifluoromethane	No	
	517	chlorodibromomethane	no	
	85V	tetrachloroethylene	Mass	
	86V	toluene	Mb_	
	87Y	trichloroethylene		= Not detected
	88V	vinyl chloride	no	

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5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (818) 381-6105 .

CLIENT	Engi	nusing Science Well 295	CAL LAB	NO. <u>15052-14</u>
	:	VOLATILES	ug/L	
	2 <b>V</b>	acrolein	nd	
	3٧	acrylonitrile	nd	•
	4٧	benzene	nd	en en en en en en en en en en en en en e
	6V	carbon tetrachloride	nd	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
	7٧	chlorobenzene	nd	· 
	107	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd	en e empere e menuelle manifest de la company
	137	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	t comments
	157	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	•
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd	
	297	l,l-dichloroethylene	nd	
	30V	1,2-trans-dichloroethylene	nd	
	32V_	1,2-dichloropropane	nd	
	337	1,3-dichloropropylene	nd	
	38V	ethylbenzene	nd	
	447	methylene chloride	nd	
	45V	methyl chloride	nd	•
	46V	methyl bromide	nd	
	47V	bromoform	nd	
	48V	dichlorobromomethane	nd	
	497	trichlorofluoromethane	nd	•
	50V	dichlorodifluoromethane	nd	ويوا والوال المراجعة
	517	chlorodibromomethane	nd	· <u></u>
	85V	tetrachloroethylene	nd	the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio
	86V	toluene	nd	/* * Less than 10 ug/L
	87V	trichloroethylene		NO = Not detected
	88V	vinyl chloride	nd	e e e e e e e e e e e e e e e e e e e
		1,1,2-trichloro-2,2,1-trifluoroethane		-

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814

NT	Engineering Sirence	•	CAL LAB NO	-12
	3.7116		CLIENT 1.0. 104 24	5
	ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS	µ <b>g/L</b>
21A 2	.4.5-trichlorophenol	1'0	41B 4-bromophenyl phenyl ether	و :-
22A p	-chloro-m-cresol	11)	42B bis(2-chloratsopropy1)ether	40
24A 2	-chlorophenol	M1)	438 bis(2-chloroethoxy)methane	;4 ·)
31A 2	.4-dichiarophenoi	M	52B bexach1orobutadiene	717
34A 2	.4-dimethylphenol	M	538 nexachlorocyclopentadiene	
57A 2	-ni trophenol	M	548 isophorone	/11
58A 4	-n1trophenol	141)	558 naphthalene	110
59A 2	4-dinitrophenol	IN)	568 nitrobenzene	
60A 4	,6-dinitro-o-cresol	M	618 N-nitrosodimethylamine-	Min
54A s	entachlorophenol	(M)	62B N-nitrosodiphenylamine	/11
65A	ohene 1	(M)	638 N-nitrosodi-n-propylamine	1u
			66B bis(2-ethylhexyl)phthelete	45.
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthelate	- 111
'8 ac	enaph thene	n1)	688 di-n-butyl phthalate	17.1
	nzidine	(N)	698 di-n-octyl phthalate	11:1
	2,4-trichlorobenzene	(11)	708 diethyl phthalate	1.1
	xachlorobenzene	(11)	718 dimethyl phthalate	. 114)
	exach lorge thene	no	728 benzo(a)anthracene	111
	is(2-chloroethyl)ether		738 benzo(a)pyrene	411
	-chloronachthaiene	MO	74B 3,4-benzofluoranthene	114
	,2-d1ch1orobenzene	(1)	758 benzo(k)fluoranthene	-111)
. —	,3-dichlorobenzene	(U)	768 chrysene	14
	,4-dichlorobenzene	no	77B acenaphthylene	4.74
	.3'-dichlorobenzidine	10	78B anthracene	111.
	,4-dinitrotoluene	140	79B benzo(ghi)perylene	
	.6-dinitrotoluene	/U)	808 fluorene	
	.2-diphenylhydrazine		818 phenanthrene	-74/5
	as azobenzene)	!47	828 dibenzo(a,h)anthracene	· · · · · · · · · · · · · · · · · · ·
398 1	luoranthene	1110	83B indeno(1,2,3-cd)pyrene	
408 4	-chlorophenyl phenyl ether	MD	848 pyrene	

3/16

5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105

PRIORITY P	OLEDIANI D	ININ SILE!
CLIENT <u>Engineering Sciences</u>		CAL LAB NO. 15052-14
ACID COMPOUNDS	μg/L	CLIENT I.D. Well 295 Passe/Neutral Compounds 19/L
21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether nd
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether nd
24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane nd
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene nd
34A 2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene nd
57A 2-nitrophenol	nd	54B isophorone nd
58A 4-nitrophenol	nd	558 naphthalene nd
59A 2,4-dinitrophenol	nd	568 nitrobenzene nd
60A 4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine nd
64A pentachTorophenol	nd	62B N-nitrosodiphenylamine nd
65A pheno1	nd	63B .N-nitrosodi-n-propylamine nd
		66B bis(2-ethylhexyl)phthalate /6/
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate Vd.
18 acenaphthene	nd	68B di-n-butyl phthalate nd.
58 benzidine	nd	69B di-n-octyl phthalate ma
8B 1,2,4-trichlorobenzene	nd	708 diethyl phthalate nd
98 hexachlorobenzene	nd	718 dimethyl phthalate my
12B hexachloroethane	nd	72B benzo(a)anthracene nd
188 bis(2-chloroethyl)ether	nd	738 benzo(a)pyrene nd
20B 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene nd
258 1,2-dichlarobenzene	nd	75B benzo(k) fluoranthene nd
26B 1,3-dichlorobenzene	nd	76B chrysene nd
27B 1,4-dichlorobenzene	nd	778 acenaphthylene nd
28B 3,3'-dichlorobenzidine	nd	788 anthracene nd
358 2,4-dinitrotoluene	nd	798 benzo(ghi)perylene
36B 2,6-dinitrotoluene	nd	808 fluorene
378 1,2-diphenylhydrazine		81B phenanthrene na
(as azobenzene)	na.	82B dibenzo(a,h)anthracene
398 fluorantheme	nd	838 indeno(1,2,3-cd)pyrene
40B 4-chlorophenyl phenyl ether	nd	848 pyrene nd

### PESTICIDE/HERBICIDE REPORT FORM

Date Received 4/29-82	HELIZ PATE Align	es ID <u>E ZC (-ZC</u> not analyzed <u>    L</u> Coulson, EC, Flame, PID	
Date analyzed	Chemist <u>LIB</u>	Approved	
	Detection Limits (ppb)	•	
Aldrin	c.cc3		
Alpha BHC	0.002		
Beta BHC	C.004		
Delta BHC	Ö-004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		
DDD (TDE)	C.012		
DDE	0.006		The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
DDT	c.016		
Dieldrin	C.006		<del></del>
Endosulfan I	0.005		
Endosulfan II	0.01		
Endosulfan sulfate	0.03		<b>.</b>
Endrin	0.009	· .	
Heptachlor	C.CCZ		-
Heptachlor epoxide	0.054		
Methoxychlor	0.62		
Toxaphene	C.40	-	٠
2,4,D	0.001	•	
2, 4, 5, T	ocei		en de la company de la company de la company de la company de la company de la company de la company de la comp
2,4,5 TP (Silvex)	0.002		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
DBCP (Dibromochloro propane)			

## PESTICIDE/HERBICIDE REFORT FORM

sample ID <u>McClellan AFB</u>	es 10 <u>820958</u>				
Well # 295	Aliqu	ot analyzed			
Date Received 18 August 1982	Detector Used:	_			
Date Received 18 August 1982  Date analyzed 30 Aug 82	Chemist <u>HF</u>	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	0.002				
Beta BHC	0.004				
Delta BHC	0.004	<u> </u>			
Gamma BHC (lindane)	0.002	1.54			
Chlordane	0.04				
DOD (TDE)	0.012				
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005	<u> </u>			
Endosulfan II	0.01	<u> </u>			
Endosulfan sulfate	0.03	. w v			
Endrin	0.009				
Heptachlor	0.002	<u></u>			
Heptachlor epoxide	0.004	<u></u>			
Methoxychlor	0.02				
Toxaphene	0.40	<u> </u>			
2,4,D	0.001				
2,4,5,T	0.001				
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)		*			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

o identitable estimate peaks

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB			es id <u>&amp;</u>	10958	
- mu # 295	Aliquot Analyzed //				
Date Received 18 August 1980 Date Analyzed 30 August 1982	Chemist_	Detector Used:	EC, Coulson, Approved	Flame, PII	
	Detection	Limits (ppb)	Found	(ppb)	
Aroclor 1016			·		
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

#### METALS REPORT FORM

		METALS R	EPORT FORM		
Sample ID McC	lellan AFB			ES ID	0620
mω #295			A	Lliquot analyzed	
Date Received	29 April 1982		,	Method Used	
Date analyzed		Chemist		Approved	
Element	Code	Detection   Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.041	··
Arsenic	p,h,c,d,o	-	10	0.55	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	0.08	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 Ztota	1 0.24	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	0.59	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	0.022	
Lithium		50			
Magnesium		1			
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	. 0.0021	
Molybdenum	c	500	***		
Nickel	p,c,o	40	1	2.13	
Potassium	·	10			

10

10

0.105

8/27/82

Selenium

Silicon

p,h,c,d

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	С				
Zine	p,c,d,o	5	0.05	2.96	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY...

### 5895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (919) 391-5105 ______

### PRIORITY POLLUTANT DATA SHEET

CLIENT <u>Engineering</u>. Science. CAL LAB NO. 14772-7 CLIENT I.D. VOLATILES ug/L acrolein nd 24 acrylonitrile nd 37 benzene nd 44 carbon tetrachloride 67 nd 78 chlorobenzene nd 1.2-dichloroethane nd 107 1,1,1-trichloroethane ml 117 1.1-dichloroethane nd 137 1,1,2-trichloroethane 147 nd 1,1,2,2-tetrachloroethane 157 nd chloroethane nd167 2-chloroethylvinyl ether 197 nd chloroform 237 nd 1,1-dichloroethylene **29**V md 1.2-trans-dichloroethylene nd **30V** 1,2-dichloropropane **32V** Md 1,3-dichloropropylene **33V** nd. ethylbenzene **38V** nd. methylene chloride 444 2600 methyl chloride 45V methyl bromide **46V** bromoform **47V** dichlorobromomethane **48V** trichlorofluoromethane 494 dichlorodifluoromethane **50V** nd chlorodibromomethane 517 tetrachloroethylene 857

toluene

trichloroethylene

1,1,2-trichloro-2,2,1-trifluoroethane

vinyl chloride

· 16 10 78 20 12

**86V** 

**87V** 

887

* = Less than 10 ug/L ND = Not detected

nd

8)11

6865 POWER INN ROAD SACRAMENTO, CALIFORNIA 96824 (814) 381-5105

CLIENT I.D. Well 30 5  VOLATILES ug/L  2V acrolein yd  3V acrylonitrile nd  4V benzene yd  6V carbon tetrachloride nd  7V chlorobenzene - nd  10V 1,2-dichloroethane nd	052-17
VOLATILES  VOLATILES  ug/L  2V acrolein  3V acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  vad  vad  vad  vad  vad  vad  vad  va	
2V acrolein   3V acrylonitrile   4V benzene   6V carbon tetrachloride   7V chlorobenzene -   10V 1,2-dichloroethane   2Nd   2Nd  2Nd  2Nd  2Nd  2Nd  2Nd  2	
2V acrolein   3V acrylonitrile   4V benzene   6V carbon tetrachloride   7V chlorobenzene -   10V 1,2-dichloroethane   2Nd   2Nd  2Nd  2Nd  2Nd  2Nd  2Nd  2	
acrylonitrile  dy benzene  fy carbon tetrachloride  rd  rd  rv chlorobenzene  10y 1,2-dichloroethane  nd	
4v benzene $nd$ 6v carbon tetrachloride $nd$ 7v chlorobenzene - $nd$ 10v 1,2-dichloroethane $nd$	
6V carbon tetrachloride nd 7V chlorobenzene - nd 10V 1,2-dichloroethane nd	
7V chlorobenzene - nd 10V 1,2-dichloroethane nd	
10v 1,2-dichloroethane nd	
11v 1,1,1-trichloroethane nd	
13v 1,1-dichloroethane nd	· •••
14v 1,1,2-trichloroethane nd	
15v 1,1,2,2-tetrachloroethane nd	
16V chloroethane nd	
19V 2-chloroethylvinyl ether nd	• •
23V chloroform nd	•
29V 1,1-dichloroethylene X	• • •
30v 1,2-trans-dichloroethylene nd	· · ·
32V 1,2-dichloropropane nd	
33V 1,3-dichloropropylene na	
38V ethylbenzene nd	
44V methylene chloride nd	<u> </u>
45V methyl chloride nd	·
46V methyl bromide nd	
47V bromoform nd	
48y dichlorobromomethane nd.	
49V trichlorofluoromethane nd	· · · · · · · · · · · · · · · · · · ·
50V dichlorodifluoromethane nd	
51V chlorodibromomethane nd	
85V tetrachloroethylene nd	
	s than 10 ug/L
	detected
88V vinyl chloride Yuil	
1,1,2-trichloro-2,2,1-trifluoroethane	

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8607

(916) 444-3557					
PRIORITY	POLLUTANT	DATA SHEET IN			
T Engineesing Science	<u></u>	CAL LAB NO. 14772-	07		
Juliania Juliania		CLIENT I.D. MW30			
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	µg/L		
21A 2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	na		
2A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	nd		
24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane	nd		
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	na		
34A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd		
57A 2-n1trophenol	nd	54B isophorone	na		
58A 4-nitrophenol	nd	558 naphthalene	nd		
59A 2,4-dinitrophenol	nd	56B nitrobenzene	nd		
60A 4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	na		
54A pentachi prophenol	nd	628 N-nitrosodiphenylamine	na		
65A phenol	nd	63B , N-nitrosodi-n-propylemine	na		
		66B bis(2-ethylhexyl)phthelate	150		
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	nd		
		688 di-n-butyl phthalate	nd		
18 acenaphthene	nd	698 di-n-octyl phthalate	na		
58 benzielne	nd	70B diethyl phthalate	$\neg na$		
88 1,2,4-trichlorobenzene	nd	718 dimethyl phthalate	nd		
98 hexachlorobenzene	nd	72B benzo(a)anthracene	na		
128 hexachloroethane	nd	738 benzo(a)pyrene	no		
188 bis(2-chloroethyl)ether	nd	748 3,4-benzofluoranthene	1		
208 2-chlerenaghthalene	<u>nd</u>	75B benzo(k) fluoranthene	n		
25B 1,2-dichlerobenzene	nd	76B chrysene			
26B 1,3-dichlorobenzene	nd		n		
27B 1,4-dichlorobenzene	nd	778 acenaphthylene	<u>n</u>		
288 3,3'-dichlorobenzidine	nd	788 anthracene	no		
35B 2,4-dinitrotoluene	nd	79B benzo(ghi)perylene	na		
368 2,6-dinitrotoluene	nd	80B fluorene	no		
37B 1.2-diphenylhydrazine		818 phenanthrene	n		
(as azobenzene)	nd	828 dibenzo(a,h)anthrecene	M		
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	n		
408 4-chlorophenyl phenyl ether	na	848 pyrene	14		

8/17/02

5885 POWER INN ROAD BACRAMENTO, CALIFORNIA 95824 (918) 381-6105

CLIEN	T Engineering Science		CAL LAB NO. 15052	
	ACID COMPOUNDS	μg/L	CLIENT I.D. <u>  We // 30</u> BASE/NEUTRAL COMPOUNDS	μg/L
		,		
	1A 2,4,6-trichlorophenol	na	418 4-bromophenyl phenyl ether	7111
_	2A p-chloro-m-cresol	<u>na</u>	42B bis(2-chloroisopropyl)ether	_20d
2	4A 2-chlorophenol	na	43B bis(2-chloroethoxy)methane	- 21d
3	11A 2,4-dichlorophenol	nd,	528 bexachlorobutadiene	<u> 20</u>
3	4A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	Tid.
5	7A 2-nitrophenol	nd	54B isophorone	rid
5	8A 4-nitrophenol	nd.	55B naphthalene	2:0
5	9A 2,4-dinitrophenol	na	56B nitrobenzene	nd
9	60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
9	64A pentachlorophenol	nd	62B N-nitrosodiphenylamine	nd
6	55A pheno1	nd	63B N-nitrosodi-n-propylamine	nd_
7			66B bis(2-ethylhexyl)phthalate	nd
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	2rd
1	B acenaphthene	nd	688 di-n-butyl phthalate	nd
	B benzidine	nd	698 di-n-octyl phthalate	nd
	38 1,2,4-trichlorobenzene	nd	708 diethyl phthalate	nd
•	08 hexachlorobenzene	nd	71B dimethyl phthalate	ni
-	128 hexachloroethane	nd	72B benzo(a)anthracene	nd
-	188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	nd
-	20B 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene	nd
-	258 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene	na
-	268 1,3-dichlorobenzene	nd	76B chrysene	nd
•	27B 1,4-dichlorobenzene	nd	77B acenaphthylene	nd
-	288 3,3'-dichlorobenzidine	nd	788 anthracene	Tod
•	35B 2,4-dinitrotoluene	na	798 benzo(ghi)perylene	.nd
•	36B 2,6-dinitrotoluene	nd	808 fluorene	nd
•	37B 1,2-diphenylhydrazine	7 67	818 phenanthrene	nd
	(as azobenzene)	na	82B dibenzo(a,h)anthracene	Wil
٠	398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	
	40B 4-chlorophenyl phenyl ether	nd	848 pyrene	nil nd

## PESTICIDE/HERBICIDE REPORT FORM

Sample ID		ES ID SZCECZ
6/16-82	Aliqu	ot analyzed
Date Received 6/24-52	Detector Used:	Coulson, EC, Flame, PI
Date analyzed	Chemist L18	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	C. C'C'3	0.041
Alpha BHC	0.002	
Beta BHC	0.004	0 567
Delta BHC	Ö-004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	C.012	·
tot	0.006	
DOT	c 016	
Dieldrin	Citt	
Endosulfan I	c.cc5	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	c.ccz	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.4c	
2,4,D	0.001	v c63
2, 4, 5, T	0001	0 079
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

λ

### PESTICIDE/HERBICIDE REFORT FORM

sample ID NG Clellan AFB		es id <u>820960</u>			
Neil # 305	Aliquot analyzed //				
Date Received 18 August 1982	Detector Used:	Coulson, EC, Flame, PID			
Date Received <u>IE Augustigez</u> Date analyzed <u>I Sept 82</u>	Chemist #F	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	0.002	0.018			
Beta BHC	0.004				
Delta BHC	0.004				
Gamma BHC (lindane)	0.002				
Chlordane	0.04				
DDD (TDE)	0.012				
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005				
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
Endrin	0.009				
Reptachlor	0.002				
Heptachlor epoxide	0.004	-			
Methoxychlor	0.02				
Toxaphene	0.40				
2,4,D	0.001				
2, 4, 5, T	0.001				
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)					

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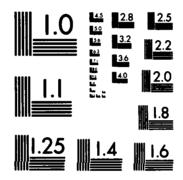
no identifiable herbicide peaks

## AROCLOR (PCB) REPORT FORM

Sample ID McClellon AFB	ES ID 820960				
mw # 30	Aliquot Analyzed /L				
Date Received 18 August 1982  Date Analyzed / September 1983		EC, Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242	·				
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

INSTALLATION RESTORATION PROGRAM PHASE II CONFIRMATION MCCLELLAN AFB CALIFORNIA VOLUME 2(U) ENGINEERING-SCIENCE INC ARCADIA CALIF JUN 83 F73615-80-D-4001 F7G 13/2 AD-A133 006 5/8 JUN 83 F/G 13/2 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

### METALS REPORT FORM

Sample ID McClellon AFB ES ID 820802 ___MW #30 Aliquot analyzed _____ Date Received 24 June 1982 Method Used __ Date analyzed ____ Chemist Approved ____ Detection Limit (ppb) Element Flameless Code Limit Aluminum 500 50 500 10 Antimony p,c 40.005 Arsenic p,h,c,d,o 10 20.05 1,000 5 Berium h.c.d Beryllium p,c, Cadmium 5 0.L p,h,c,d,o LO.01 Calcium 50 1) total Chromium (+3) p,h,c,d,o 20 40.05 10 Chromium (+6) c Cobalt 50 1 20 1. Copper p,c,d,o 20.05 Gold 100 1 Iron d 100 1 Lead 100 p,h,c,d,o 10 LO.01 50 Lithium Magnesius 10 Manganese d 0.5 0.5 Mercury p,h,c,d,o 0.0016 500 Molybdenum c Nickel 40 1 p,c,0 10.05 Potassium 10 Selenium 10 p,h,c,d 20.01 Silicon 10

64/18

8/27/82

9-386

Element	Code	Detection Flame	rlameless	Detected	Limit
Silver	p,h,c,d,o	50	1	20.05	
Sodium		10			
Thallium	p,c,				<del></del>
Tin					
Vanadium	C				
Zinc	p,c,d,o	5	0.05	(0.02	and the specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific specific spec

- codes: p EPA priority pollutant
  h EPA hazardous waste
  c Ca. Dept. Health Services hazardous waste
  d EPA drinking water

  - o Ocean waters of California

6/16 somple

# California Analytical Laboratories, Inc.

5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105

#### PRIORITY POLLUTANT DATA SHEET

CLIENT Engineeung Science CAL LAB NO. 14772-11

CLIENT I.D. MW31

	<u>VOLATILES</u>	ug/L
27	acrolein	nd
3٧	acrylonitrile	nd
4٧	benzene	nd.
67	carbon tetrachloride	nd
77	chlorobenzene	nd
100	1,2-dichloroethane	ond
117	1,1,1-trichloroethane	nd
137	1,1-dichloroethane	nd
147	1,1,2-trichloroethane	nd
157	1,1,2,2-tetrachloroethane	end
167	chloroethane	nd
197	2-chloroethylvinyl ether	nd
23V	chloroform	nd
29V	1,1-dichloroethylene	nd
30V	1,2-trans-dichloroethylene	nd
32V	1,2-dichloropropane	nd
337	1,3-dichloropropylene	nd.
387	ethy1benzene	nd
.447	methylene chloride	nd
45V	methyl chloride	nd
46V	methyl bromide	nd.
477	bromoform	nd
48V	dichlorobromomethane	nd
49V	trichlorofluoromethane	nd
50V	dichlorodifluoromethane	nd
517	chlorodibromomethane	nd
85V	tetrachloroethylene	Md
86V	toluene	nd
877	trichloroethylene	nd
887	vinyl chloride	nd
	1,1,2-trichloro-2,2,1-trifluoroethane	nd

* = Less than 10 ug/L ND = Not detected

511

5885 FOWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (818) 381-5105

### PRIORITY POLLUTANT DATA SHEET

VOLATILES   Ug/L	CLIENT	Engli	ruring Science	_ CAL LAB NO. <u>15052-18</u>
27   acrolein	CLIENT	I.D	1/1/2/11 3/5	<u> </u>
37   acrylonitrile		:	VOLATILES	ug/L
4V         benzene         MA           6V         carbon tetrachloride         MG           7V         chlorobenzene         MG           10V         1,2-dichloroethane         Mg           11V         1,1,1-trichloroethane         Mg           13V         1,1-dichloroethane         Mg           14V         1,1,2-trichloroethane         Mg           15V         1,1,2,2-tetrachloroethane         Mg           16V         chloroethane         Mg           19V         2-chloroethylvinyl ether         Mg           23V         chloroform         Mg           29V         1,1-dichloroethylene         Mg           30V         1,2-trans-dichloroethylene         Mg           32V         1,2-dichloropropane         Mg           33V         1,3-dichloropropane         Mg           33V         1,3-dichloropropane         Mg           44V         methylene chloride         Mg           45V         methyl chloride         Mg           46V         methyl bromide         Mg           47V         bromoform         Mg           48V         dichlorodifluoromethane         Mg           50V		_2V	acrolein	<u> </u>
6Y         carbon tetrachloride         NG           7V         chlorobenzene         Nd           10V         1,2-dichloroethane         nd           11V         1,1,1-trichloroethane         nd           13V         1,1-dichloroethane         nd           14V         1,1,2-trichloroethane         nd           15V         1,1,2,2-tetrachloroethane         nd           16V         chloroethane         nd           19V         2-chloroethylvinyl ether         nd           23V         chloroform         nd           29V         1,1-dichloroethylene         nd           30V         1,2-trans-dichloroethylene         na           32V         1,2-dichloropropane         na           33V         1,3-dichloropropylene         na           38V         ethylbenzene         na           44V         methyl chloride         na           45V         methyl bromide         na           45V         methyl bromide         na           47V         bromoform         na           49V         trichlorofluoromethane         na           50V         dichlorodifluoromethane         na           5V		_3٧	acrylonitrile	<u>na</u>
7V         chlorobenzene         nd           10V         1,2-dichloroethane         nd           11V         1,1,1-trichloroethane         nd           13V         1,1-dichloroethane         nd           14V         1,1,2-trichloroethane         nd           15V         1,1,2,2-tetrachloroethane         nd           16V         chloroethane         nd           19V         2-chloroethylvinyl ether         nd           23V         chloroform         nd           29V         1,1-dichloroethylene         nd           30V         1,2-trans-dichloroethylene         na           32V         1,2-dichloropropane         na           32V         1,2-dichloropropane         na           38V         ethylbenzene         na           44V         methylene chloride         na           45V         methyl chloride         na           45V         methyl bromide         na           47V         bromoform         na           49V         trichlorofluoromethane         na           50V         dichlorodifluoromethane         na           51V         chlorodibromomethane         na           5V		4٧	benzene	na
10y		6V	carbon tetrachloride	na -
11V		<u>7V</u>	chlorobenzene	nd
11V		100	1,2-dichloroethane	
13V   1,1-dichloroethane   md     14V   1,1,2-trichloroethane   md     15V   1,1,2,2-tetrachloroethane   ma     16V   chloroethane   ma     19V   2-chloroethylvinyl ether   md     23V   chloroform   md     29V   1,1-dichloroethylene   H     30V   1,2-trans-dichloroethylene   ma     32V   1,2-dichloropropane   ma     32V   1,3-dichloropropylene   md     38V   ethylbenzene   ma     44V   methylene chloride   md     45V   methyl chloride   md     46V   methyl bromide   md     48V   dichlorobromomethane   md     48V   dichlorofluoromethane   md     50V   dichlorofluoromethane   md     51V   chlorodifluoromethane   md     85V   tetrachloroethylene   md     86V   toluene   ma     87V   trichloroethylene   md     88V   vinyl chloride   md     88V   vi		117	1,1,1-trichloroethane	
14V         1,1,2-trichloroethane         nd           15V         1,1,2,2-tetrachloroethane         na           16V         chloroethane         nd           19V         2-chloroethylvinyl ether         nd           23V         chloroform         nd           29V         1,1-dichloroethylene         nd           30V         1,2-trans-dichloroethylene         na           32V         1,2-dichloropropane         nd           33V         1,3-dichloropropylene         nd           44V         methylene chloride         nd           45V         methyl chloride         nd           46V         methyl bromide         nd           47V         bromoform         nd           48V         dichlorobromomethane         nd           50V         dichlorodifluoromethane         nd           51V         chlorodibromomethane         nd           85V         tetrachloroethylene         nd           86V         toluene         nd           88V         vinyl chloride         nd		137	1,1-dichloroethane	
15V   1,1,2,2-tetrachloroethane		147	1,1,2-trichloroethane	
16V   chloroethane   Nd     19V   2-chloroethylvinyl ether   Nd     23V   chloroform   Nd     29V   1,1-dichloroethylene   X     30V   1,2-trans-dichloroethylene   Nd     32V   1,2-dichloropropane   Nd     33V   1,3-dichloropropylene   Nd     38V   ethylbenzene   Nd     44V   methylene chloride   Nd     45V   methyl chloride   Nd     46V   methyl bromide   Nd     47V   bromoform   Nd     48V   dichlorofluoromethane   Nd     49V   trichlorofluoromethane   Nd     50V   dichlorodifluoromethane   Nd     51V   chlorodibromomethane   Nd     85V   tetrachloroethylene   Nd     86V   toluene   Na     87V   trichloroethylene   No     88V   vinyl chloride   Nd     88		150	1,1,2,2-tetrachloroethane	<del></del>
23V chloroform md  29V 1,1-dichloroethylene		167	<del></del>	
chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  70 NO = Not detected  88V vinyl chloride  71		190	2-chloroethylvinyl ether	
1,1-dichloroethylene		237	chloroform	<u></u>
1,2-trans-dichloroethylene   1,2-dichloropropane   1,2-dichloropropane   1,3-dichloropropylene   1,3			1,1-dichloroethylene	/
1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  88V vinyl chloride  70				· <del></del> ,
1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  70 ND = Not detected  71 Nd				···· - · · · <del>- · · · · · · · · · · · · </del>
asy ethylbenzene ma  44V methylene chloride ma  45V methyl chloride ma  46V methyl bromide ma  47V bromoform ma  48V dichlorobromomethane ma  49V trichlorofluoromethane ma  50V dichlorodifluoromethane ma  51V chlorodibromomethane ma  85V tetrachloroethylene ma  86V toluene ma  87V trichloroethylene ma  88V vinyl chloride		1,3-dichloropropylene		
44Vmethylene chlorideNa45Vmethyl chlorideNa46Vmethyl bromideNa47VbromoformNa48VdichlorobromomethaneNa49VtrichlorofluoromethaneNa50VdichlorodifluoromethaneNa51VchlorodibromomethaneNa85VtetrachloroethyleneNa86VtolueneNa87VtrichloroethyleneIO88Vvinyl chlorideNa				
### methyl chloride ####################################				
46V methyl bromide  47V bromoform  Md  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  70 ND = Not detected  88V vinyl chloride		45V		<del></del>
47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  70  70  70  70  70  70  70  70  70  7				
48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  70 NO = Not detected				
49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  Nd  Nd  No  No  No  No  No  No  No  No			dichlorobromomethane	
50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  70 NO = Not detected			trichlorofluoromethane	<del></del>
51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  70 ND = Not detected			dichlorodifluoromethane	
85V tetrachloroethylene  86V toluene  87V trichloroethylene  88V vinyl chloride  Not tetrachloroethylene  10 ND = Not detected				
86V toluene  87V trichloroethylene  88V vinyl chloride  No less than 10 ug/L NO = Not detected			tetrachloroethylene	
87V trichloroethylene /O ND = Not detected  88V vinyl chloride nd				
88V vinyl chloride nd				/ MD - Mat datastad

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

T Enamersina Science		CAL LAB NO. 14772-	//
		CLIENT I.D. MW3/	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	g/l
21A 2,4,6-trichlorophenol	ind	41B 4-bromophenyl phenyl ether m	1
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropy1)ether 70	d
24A 2-chlorophenol	nde	438 bis(2-chloroethoxy)methane M	do
31A 2,4-d1chlorophenol	nd	52B bexachlorobutadiene 21	1
34A 2,4-disethylphenol	nd	538 hexachlorocyclopentadiene /	d
57A 2-nitrophenol	nd	548 isophorone	rd
58A 4-n1trophenol	nd	55B naphthalene 2	11
59A 2,4-dinitrophenol	nd	56B nitrobenzene	nA
60A 4,6-dinitro-o-cresol	- nd	618 N-nitrosodimethylamine	M
64A pentachlorophenol	nd	62B N-nitrosodiphenylamine	21
65A phene)	nd	63B .N-nitrosodi-n-propylamine	ha
		66B bis(2-ethylhexyl)phthalate	214
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	24
'8 acenaphthene	nd	688 di-n-butyl phthalate	1d
58 benziélne	nd		M
88 1,2,4-trichlorobenzene	nd	708 diethyl phthalate M	1
9B hexachlorobenzene	nd	718 dimethyl phthalate	
128 hexachloroethene	nd		111
188 bis(2-chloroethyl)ether	nd		11
208 2-chlerenachthelene	nd		n
25B 1,2-dichlerebenzene	nd		N
26B 1,3-dichlorobenzene	nd		no
27B 1,4-dichlorobenzene	nd		n
288 3,3'-dichlorobenzidine	nd		n
358 2,4-dimitrotoluene	nd		20
368 2,6-dinitrotoluene	nd		90
378 1,2-diphenylhydrazine		818 phenanthrene	71
(as azobenzene)	nd.	828 dibenzo(a,h)anthracene	24
398 fluoranthene	nal	83B indeno(1,2,3-cd)pyrene	4

8/11/32

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#### PRIORITY POLLUTANT DATA SHEET

IENT <u>Engineering</u> Science		CAL LAB NO/5052	-18
<del>- y</del> y		CLIENT I.D. <u>We// 3/</u>	8
ACID COMPOUNDS	μ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	na
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	na
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	na
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	na
34A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	na
57A 2-nitrophenol	nai	54B isophorone	na
58A 4-nitrophenol	nd	558 naphthalene	ná
59A 2,4-dinitrophenol	nd	568 nitrobenzene	n
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	na
64A pentach jorophenol	nd	62B N-nitrosodiphenylamine	no
65A pheno1	nd	63B N-nitrosodi-n-propylamine	n
		66B bis(2-ethylhexyl)phthalate	n
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	74
1B acenaphthene	nd	688 di-n-butyl phthalate	n
5B benzidine	nd	698 di-n-octyl phthalate	no
88 1,2,4-trichlorobenzene	nd	70B diethyl phthalate	no
9B hexachlorobenzene	nd	718 dimethyl phthalate	21
12B hexachloroethane	nd	72B benzo(a)anthracene	n
188 bis(2-chloroethyl)ether	nd	738 benzo(a)pyrene	n
208 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene	n
258 1,2-dichlorobenzene	nd	75B benzo(k)fluoranthene	n
2681,3-dichlorobenzene	ne	76B chrysene	W.
278 1,4-dichlorobenzene	nd	77B acenaphthylene	n
288 3,3'-dichlorobenzidine	nd	788 anthracene	$\gamma$
358 2,4-dinitrotoluene	nd	798 benzo(ghi)perylene	7
36B. 2,6-dinitrotoluene	nd	808 fluorene	7
378 1.2-diphenylhydrazine		818 phenanthrene	2
(as azobenzene)	nd	82R dibenzo(a,h)anthracene	711
39B fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	710
40B 4-chlorophenyl phenyl ether	nd	84B pyrene	n

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID		ES ID <u>\$70805</u>
41,5-82	Aliqu	not analyzed
Date Received 6/20-82	Detector Used:	Coulson, EC, Flame, FID
Dete analyzed	Chemist	Approved
·	Detection Limits (ppb)	Found (ppb)
Aldrin	C. CO.	2.53
lpha BHC	0.002	·
eta BHC	0.004	
Delta BHC	D-004	
Samma BHC (lindane)	0.002	
hlordane	0.04	*. <del>=</del>
OD. (TDE)	C.012	_
DDE	0.006	
OT	c.cil	
Dieldrin	C.056	
Indosulfan I	6.005	
ndosulfan II	0.01	
Indosulfan sulfate	0.03	
ndrin	0.009	
septachlor	c.ccZ	
Septachlor epoxide	0.009	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
BCP (Dibromochloro propane)		
ENGINEERIN	IG-SCIENCE - BERKELEY LABOR	RATORY
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClelky AFB		es id <u>820961</u>
Nell#315	Aliqu	ot analyzed _/L.
Date Received 12 August 1982	_ Detector Used:	Coulson, EC Flame, PID
Date analyzed 27 Aug 82	Chemist <u>HF</u>	Approved
	Detection Limits(ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	9,902	0.024
Beta BRC	0.004	
Delta BRC	0.004	
Gamma BHC (lindane)	0.002	0.0085
Chlordane	0.04	
DOD (TDE)	0.012	
DOE	0.006	
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	0.01
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	0.003
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB		ES ID 82096/
mu) #31	Aliqu	ot Analyzed /L
Date Received 18 August 1922  Date Analyzed 27 August 1982	Detector Used:	Coulson, Flame, PID Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		· · · · · · · · · · · · · · · · · · ·
Aroclor 1254		
Aroclor 1260		

Not detected.

#### METALS REPORT FORM

Sample ID McClellan AFB				ES ID	820805
Dese Received 24 June A32				Aliquot analyzed	
				Method Used	
Date analyzed		Chemist		Approved	<del></del>
Element	Code	Detection I	imit (ppb)	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<i>&lt;0.005</i>	
Arsenic	p,h,c,d,o		10	<0.05	
Berium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>LO.01</b>	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	17/10/	tal <0.05	
Chromium (+6)	C	-	10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1.	L0.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	20.01	
Lithium		50	***		
Magnesium		1	-		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0017	
Molybdenus	c	500			
Nickel	p,c,o	40	1	L0.05	<del></del>
Potassium		10			
Selenium	p,h,c,d		10	40.01	
Silicon		10			
			والمراجع المراجع المر		

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Detection Limit (ppb)					
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		. 10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	20.02	

codes: p - EPA priority pollutant
h - EPA hazardous waste
c - Ca. Dept. Health Services hazardous waste
d - EPA drinking water

- Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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8/27/82

STAGE I DEEP WELLS

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

### PRIORITY POLLUTANT DATA SHEET

int

CLIENT <u>Engineesing Science</u>	CAL LAB NO./4772-4
CLIENT I.D. MWIED	

	VOLATILES	<u>ıg/L</u>
_2	<u>acrolein</u>	nd
_3	acrylonitrile	nd
, 4	) benzene	nd
_6	carbon tetrachloride	nd.
	chlorobenzene	nd.
1	y 1,2-dichloroethane	nd.
1	y 1,1,1-trichloroethane	nd.
_1	3v 1,1-dichloroethane	nd.
	1,1,2-trichloroethane	nd
_1	1,1,2,2-tetrachloroethane	nd
_1	5V chloroethane	nd
_1	2-chloroethylvinyl ether	nd
2	3V chloroform	nd
2	1,1-dichloroethylene	nd.
3	y 1,2-trans-dichloroethylene	nd
3	2y 1,2-dichloropropane	nd
3	3V 1,3-dichloropropylene	nd.
3	3V ethylbenzene	nd
_4	wethylene chloride	nd
4	5V methyl chloride	nd
4	5V methyl bromide	nd
4	7V bromoform	nd
4	By dichlorobromomethane	nd
4	gy trichlorofluoromethane	nd
5	OV dichlorodifluoromethane	nd
5	ly chlorodibromomethane	nd
	5V tetrachloroethylene	nd
8	6V toluene	nd
8	7V trichloroethylene	nd
	By vinyl chloride	nd
	1,1,2-trichloro-2,2,1-trifluoroethane	nd

* = Less than 10 ug/L ND = Not detected

#### SEES FOWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (818) 381-6105 .

### PRIORITY POLLUTANT DATA SHEET

CLIENT CLIENT		ineering Science Well 16D	CAL LAB NO. <u>15052-13</u>
:	:	<u>VOLATILES</u>	ug/L
	27	acrolein	nd
•	3٧	acrylonitrile	nd
•	4٧	benzene	nci
·	6V	carbon tetrachloride	<u>nd</u>
	7٧	chlorobenzene	nd
	100	1,2-dichloroethane	nd.
	117	1,1,1-trichloroethane	nd
	13V	1,1-dichloroethane	nd.
	147	1,1,2-trichloroethane	nd
	157	1,1,2,2-tetrachloroethane	nd
·	16V	chloroethane	nd
•	190	2-chloroethylvinyl ether	nd.
	237	chloroform	nd -
	29V	l,l-dichloroethylene	nd
	30V	1,2-trans-dichloroethylene	nd
	32V	1,2-dichloropropane	nd
	33V	1,3-dichloropropylene	nd
	38V	ethy l benzene	nd
	44V	methylene chloride	nd
	45V	methyl chloride	nd
	46V	methyl bromide	nt -
	47V	bromoform	not
	48V	dichlorobromomethane	nd
	49V	trichlorofluoromethane	nd-
	50V	dichlorodifluoromethane	nd
	<u>51v</u>	chlorodibromomethane	nd
	<u>85V</u>	tetrachloroethylene	nd
	867	toluene	nd * = Less than 10 ug/L
	879	trichloroethylene	ND = Not detected
	<b>88</b> Y	vinyl chloride	nd
		1,1,2-trichloro-2,2,1-trifluoroethane	nd

401 NORTH IGN STREET SACRAMENTO, CALIFORNIA 95814

PRIGRITY POLLUTANT	DATA SHEET JOS
LIENT Engineering Science	CAL LAB NO. 14772-4  CLIENT I.D. MW16D
ACID COMPOUNDS µg/L	BASE/NEUTRAL COMPOUNDS . µ9/L
21A 2,4,6-trichlorophenol Md	41B 4-bromophenyl phenyl ether nd
22A p-chloro-a-cresol nd	428 bis(2-chloroisopropyl)ether nd
24A 2-chlorophenol nd	438 bis(2-chloroethoxy)methane Md
31A 2,4-dichlorophenol and	528 bexachlorobutadiene nd
34A 2,4-dimethylphenol nd	538 hexachlorocyclopentadiene nd
57A 2-nitrophenol nd	548 isophorone md
58A 4-nitrophenoi	558 naphthalene nd
59A 2,4-dinitrophenol nd	56B nitrobenzene nd
60A 4,6-dinitro-o-cresol nd	618 N-nitrosodimethylamine nd
64A pentach i gropheno i nd	62B N-nitrosodiphenylamine nd
65A phenol nd	638 .N-nitrosodi-n-propylamine nd
	668 bis(2-ethylhexyl)phthelete nd
BASE/NEUTRAL COMPOUNDS	67B butyl benzyl phthalate nd
18 acenephthene nd	688 di-n-butyl phthalate —nd
58 benzieine ud.	'69B di-n-octyl phthalate nd
88 1,2,4-trichlorobenzene nd	70B diethyl phthalate
98 hexachlerobenzene nd	718 dimethyl phthalate nd
128 hexachlorgethene nd	728 benzo(a)anthracene nd
188 bis(2-chloroethyl)ether	738 benzo(a)pyrene nd
208 2-chlerenaphthelene nd	74B 3,4-benzofluorenthene nd
258 1,2-dichlorobenzene nd	758 benzo(k)fluoranthene
26B 1,3-dichlorobenzene Nd	768 chrysene nd
278 1,4-dichlorobenzene Nd	778 acenaphthylene 944
288 3,3'-dichlorobenzidine , Md	788 anthracene 24
358 2,4-dinitrotolyene nd	798 benzo(ghi)perylene nd
368 2,6-dinitrotoluene Nd	808 fluorene NA
378 1.2-diphenylhydrazine (as azobenzene) Md	818 phenanthrene
398 fluoranthene nd	
408 4-chloropheny) phenyl ether NA	
AND 4-CHIGLORIGHA! PHENA! SCHOL	

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#### SSSS FOWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-5105

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### PRIORITY POLLUTANT DATA SHEET

LIENT _	Engineering Science		CAL LAB NO. <u>/5052</u> - CLIENT I.D. <i>W/0// / 6</i>	/3
	ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A	2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd
22A	p-chloro-m-cresol	nd	428 bis(2-chloroisopropyl)ether	71a
24A	2-chlorophenol	na	43B bis(2-chloroethoxy)methane	コメ
31A	2,4-dichlorophenol	nd	52B bexachlorobutadiene	na
34A	2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd
57A	2-ni trophenol	nd	54B isophorone	nd
58A	4-ni trophenol	nd	55B naphthalene	na
59A	2,4-dinitrophenol	nd	56B nitrobenzene	nd
60A	4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
64A	pentachlorophenol	nd	62B N-nitrosodiphenylamine	ni
65A	phenol	nd	63B N-nitrosodi-n-propylamine	V i
		<del></del>	66B bis(2-ethylhexyl)phthalate	na
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	na
18	acenaphthene	nd	688 di-n-butyl phthalate	na
	benzi di ne	nd	69B di-n-octyl phthalate	na
	1,2,4-trichlorobenzene	71	70B diethyl phthalate	na
	hexachlorobenzene	nd.	718 dimethyl phthalate	na
	hexachloroethane	nd	72B benzo(a)anthracene	na
	bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	na
	2-chloronaphthalene	nd	748 3,4-benzofluoranthene	no
	1,2-dichlorobenzene	na	75B benzo(k)fluoranthene	710
	1,3-dichlorobenzene	nd	76B chrysene	na
	1,4-dichlorobenzene	nd	778 acenaphthylene	na
	3,3'-dichlorobenzidine	nd	788 anthracene	no
	2,4-dinitrotoluene	nd	79B benzo(ghi)perylene	no
	2,6-dinitrotoluene	nx	80B fluorene	ne
	1,2-diphenylhydrazine		818 phenanthrene	na
	(as azobenzene)	nd	82B dibenzo(a,h)anthracene	na
39B	fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	no
		nd		_

# PESTICIDE/HERB ICIDE REPORT FORM

Sample ID 160		ES ID <u>£20793</u>		
6/16-82	Aliquot analyzed			
Date Received 6/24-82	Detector Used:	Coulson, EC, Flame, PID		
Date analyzed	Chemist <u>UB</u>	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	c. CC3	0.005		
Alpha BHC	0.002			
Beta BHC	C.004			
Delta BHC	D.CC4			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DDD (TDE)	0.012			
DDE	0.006			
DDT	c.c16.			
Dieldrin	C.006			
Endosulfan I	0.005			
Endosulfan II	0.61			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	c.ocz	C.CCE		
Heptachlor epoxide	c.cc4			
Methoxychlor	0.62			
Toxaphene	C.40			
2,4,D	0.001	C.C&Z		
2,4,5,T	0001	C.037		
2,4,5 TP (Silvex)	0.002	0.080		
DBCP (Dibromochloro propane)				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID McClellan AFB		es 10 <u>670950</u>		
Nell # 16D	Aliquot analyzed /L			
Date Received 18 AuguST 1982	Detector Used:	Coulson, Flame, PID		
Date analyzed 26 Aug 82	Chemist <u>HF</u>	Approved		
•	Detection Limits (ppb)	Found (ppb)		
Aldrin	0.003			
Alpha BHC	0.002			
Beta BRC	0.004			
Delta BHC	0.004			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DOD (TDE)	0.012			
DDE	0.006			
DOT	0.016			
Dieldrin	0.006			
Endosulfan I	0.005			
Endosulfan II	0.01			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	0.002			
Heptachlor epoxide	0.004			
Methoxychlor	0.02			
Toxaphene	0.40			
2,4,D	0.001			
2, 4, 5, T	0.001	· · · · · · · · · · · · · · · · · · ·		
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)		<u> </u>		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

# AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB		ES ID 820950			
mw #160	Aliquot Analyzed //				
Date Received 11 August 1982  Date Analyzed 26 August 1982	Detector Used: EC, Coulson, Flame Chemist HF Approved				
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

MW#160  Date Received 24 June 1982					820193
				Aliquot analyzed	
				Method Used	
Date analyzed		Chemis	t	Approved	<del></del>
		Detection	Limit (ppb)		
Element	Code	Flame	Plameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	. <0.005	
Arsenic	p,h,c,d,o	440	10	<b>&lt;0.05</b>	
Barium.	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50·			
Chromium (+3)	p,h,c,d,o	20	1 26	tal <0.05	
Chromium (+6)	C.	***	70)		
Cobalt.		50	1		
Copper	p,c,d,o	20	1	L0.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>&lt;0.01</b>	
Lithium		50			
Magnesium		1	404		
Manganese	d	10	0.5		water than the same of
Mercury	p,h,c,d,o		0.5	<0.0005	3.5
Molybdenum	c	500	400		
Nickel	р,с,о	40	1	<u> </u>	
Potassium		10			
Selenium	p,h,c,d		10	<u> </u>	The second property of
Silicon		10			

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Detection Limit (ppb)  Element Code Flame Flameless Detected					
Silver	p,h,c,d,o	50	1	<0.05	Limit
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<0.02	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

6/16 sample

# California Analytical Laboratories, Inc.

401 NORTH 19th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

#### PRIORITY POLLUTANT DATA SHEET

Engineesing Science CAL LAB NO. 14772-3 CLIENT CLIENT I.D. VOLATILES ug/L acrolein 24 nd. acrylonitrile 37 nd. 47 benzene nd 67 carbon tetrachloride nd 77 chlorobenzene nd-1.2-dichloroethane 107 nd 117 1,1,1-trichloroethane nd 1.1-dichloroethane 137 nd. 1.1.2-trichloroethane 144 nd. 1,1,2,2-tetrachloroethane 157 nd chloroethane 167 nd. 197 2-chloroethylvinyl ether nd. chloroform 237 nd. **29**¥ 1,1-dichloroethylene nd 1.2-trans-dichloroethylene 307 nd **32**V 1,2-dichloropropane nd 337 1.3-dichloropropylene nd. **38**V ethylbenzene nd methylene chloride nd. 444 methyl chloride 45V nd. methyl bromide 467 nd bromoform 474 Md. **48**¥ dichlorobromomethane nd trichlorofluoromethane 494 nd **50V** dichlorodifluoromethane nd. chlorodibromomethane 517 nd. tetrachloroethylene **85V** toluene **86V** * = Less than 10 ug/L ND = Not detected 877 trichloroethylene nd vinyl chloride nd **88**Y 1,1,2-trichloro-2,2,1-trifluoroethane nd

#### 5886 FOWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (918) 381-5105 .

### PRIORITY POLLUTANT DATA SHEET

<del></del>	-	FRIGRITI FOLLOTATI DATA S		
		neering Science	CAL LAB NO. 15052-7	
CLIENT	I.D/	Nell & IFD	<del></del>	
	<i>:</i>	VOLATILES	ug/L	
	27	acrolein	nd.	
	3٧	acrylonitrile	nd	
	4٧	benzene	nd	
	6V	carbon tetrachloride	nd	
	7٧	chlorobenzene	nd	
	107	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd	
	137	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	157	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd	
	297	1,1-dichloroethylene	nd	
	30V	1,2-trans-dichloroethylene	nd	
	327	1,2-dichloropropane	nd	
	_33V	1,3-dichloropropylene	nol	
	_38V_	ethy1benzene	nd	
	447	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	na	
	47٧	bromoform	nd	
	_48V	dichlorobromomethane	nd	
	49V	trichlorofluoromethane	nd	
	50V	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	
	85V	tetrachloroethylene	ng	
	867	toluene	nd * = Less than 10 u	ua/L
	_87V	trichloroethylene	nd ND = Not detected	
	88V	vinyl chloride	nd	-

1,1,2-trichloro-2,2,1-trifluoroethane

461 NORTH 16IN STREET RAMENTO, CALIFORNIA 95814

*******	PRIORITY	POLLUTANT (	DATA SHEET JOS
ENT _	Engineering Science		CAL LAB NO. 14772-03  CLIENT I.D. MW17D
	ACID COMPOUNDS	μ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS . ug/L
214	2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether nd
22A	p-chloro-a-cresol	nd	428 bis(2-chloroisopropy1)ether Ad
24A	2-chlorophenol	nd	438 bis(2-chloroethoxy) methane nd
31A	2,4-dichlorophenol	nd	528 bexachlorobutadiene nd
34A	2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene
57A	2-n1trophenol	nd	548 isophorone Ad
	4-n1trophenol	nd	558 naphthalene nd
	2,4-dinitrophenol	nd	568 nitrobenzene <u>na</u>
60A		nd	61B N-nitrosodimethylamine nd
64A		nd	62B N-nitrosodiphenylamine na
65A	phenol	nd	638 N-nitrosodi-n-propylamine
.=-			668 bis(2-ethylhexyl)phthelate //
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthelete
, B	acenaphthene	nd	688 di-n-butyl phthelate No.
	benzi dine	nd.	698 di-n-octyl phthalate
	1,2,4-trichlorobenzene	nd	708 diethyl phthalate // /
	hexach lorobenzene	nd	71B dimethyl phthalate
	hexach lorge thane	nd	728 benzo(a)anthracene
	bis(2-chlorsethyl)ether	nd	738 benzo(a)pyrene
	2-chlereneghthelene	nd	748 3,4-benzofluorenthene // // // // // // // // // // // // //
	1,2-dichlorobenzene	_nd	758 benzo(k)fluoranthene ' No.
	1,3-dichlorobenzene	nd	768 chrysene //
-	1,4-dichiorobenzene	nd	778 acenaphthylene
	3,3'-dichlorobenzidine	nd	788 anthracene
	2,4-dinitrotoluene	- Ad	798 benzo(ghi)perylene
	8-2,6-dimitrotoluene	nd	808 fluorene
~37 <b>1</b>	8 1,2-diphenylhydrazine (85 820benzene)	nd	818 phenanthrene // 828 dibenzo(a,h)anthracene //
398	B fluoranthene	hd	838 indeno(1,2,3-cd)pyrene //
	8 4-chigrophenyl phenyl ether	nd	848 pyrene

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5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95624 (918) 391-5105

### PRIORITY POLLUTANT DATA SHEET

ENT En	gineering Scie	ince		CAL LAB NO. 15052	- <del>7</del>
AC1	D COMPOUNDS	µg/L	BA:	CLIENT I.D. We/// SE/NEUTRAL COMPOUNDS	<u>ر / 7</u> ۱۰g/L
21A 2,4,6	-trichlorophenol	nd	41B	4-bromophenyl phenyl ether	no
	oro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	716
	orophenol	nd	43B	bis(2-chloroethoxy)methane	$\gamma_{\epsilon}$
31A 2,4-	ichlorophenol	nd	52B	bexachlorobutadiene	7
34A 2,4-	imethylphenol	nd	53B	hexachlorocyclopentadiene	$\gamma_{\zeta}$
57A 2-ni	trophenol	nd	548	isophorone	η,
58A 4-ni	trophenol	nd	55B	naphthalene	_n
59A 2,4-	iinitrophenol	nd	56B	nitrobenzene	n
60A 4,6-	dinitro-o-cresol	nd	61B	N-nitrosodimethylamine	Y
64A penta	ich lorophenol	nd	62B	N-nitrosodiphenylamine	- n
65A pheno	01	nd	63B	.N-nitrosodi-n-propylamine	7:
			66B	bis(2-ethylhexyl)phthalate	7
BA	SE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	2
18 acena	ph thene	nd	68B	di-n-butyl phthalate	7
58 benzi		nd	69B	di-n-octyl phthalate	<u> </u>
	-trichlorobenzene	nd	70B	diethyl phthalate	n
	nlorobenzene	nd	718	dimethyl phthalate	2
	nloroethane	nd	72B	benzo(a)anthracene	- 2
	-chloroethyl)ether	712	73B	benzo(a)pyrene	2
	oronaph tha lene	nd	748	3,4-benzofluoranthene	n
	ichlorobenzene	nd	75B	benzo(k)fluorantheme	21
	ichlorobenzene	nd	76B	chrysene	n
	ichlorobenzene	nd	<b>778</b>	acenaphthylene	
———	dichlorobenzidine	nd	788	anthracene	2
	initrotoluene	nd	<u>798</u>	benzo(ghi)perylene	2
	initrotoluene	nd	80B	fluorene	
. 147	iphenylhydrazine		818	phenanthrene	7
	zobenzene)	nd	82R	dibenzo(a,h)anthracene	n
398 fluor	anthene	nd	83B	indeno(1,2,3-cd)pyrene	- 2
40B 4-ch1	orophenyl phenyl ethe	r nd	84B	pyrene	1

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID MU 17D		ES ID \$20 797
6/15-82	Alig	not analyzed
Date Received 6/24-5.2	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist <u>UB</u>	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.002	
Beta BHC	0.004	-
Delta BHC	<i>0.004</i>	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	·
DDD (TDE)	C.012	
DDE	0.006	
DDT	C.GIL	·
Dieldrin	C.ltle	
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	6.009	
Heptachlor	C.OCZ	
Heptachlor epoxide	c.004	
Methoxychlor	C.L.Z	
Toxaphene	C.40	
2,4,D	0.001	- C.099 -
2,4,5,T-	0001	0.032
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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#### PESTICIDE/HERBICIDE REPORT FORM

Gample ID McClellan AFB		ES ID <u>810952</u>
Well # 17 D	Aliqu	ot analyzed <u>Fe</u>
Date Received IE Ainust 1982	Detector Used:	Coulson, E Flame, PID
Date analyzed 26 Aug 82	Chemist HF	Approved
·	Detection Limits (PPD)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0,002	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DDE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	·····
Endosulfan sulfate	0,03	·
Endrin	0.009	
Heptachlor	0.002	······
Heptachlor epoxide	0.004	
Methoxychlor	0.02	·
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

no identifiable peaks

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	ES ID 820952 Aliquot Analyzed /L				
MW #17 0					
Date Received/8 August 1982 Date Analyzed 26 August 1982	Detector Used: Chemist HF	&C. Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

#### METALS REPORT FORM

Sample ID Mc Clellon AFB					820797
Date Received 24 June 1982 Date analyzed				liquot analyzed	
		Chemist		Method Used	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	20.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	۷٥.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 } tota	el <0.05	
Chromium (+6)	C		١٥ )		
Cobalt		50	1		
Copper	p,c,d,o	20	ì	Ž0.05	
Go1d		100	1,		
Iron	đ	100	1		
Lesd	p,h,c,d,o	100	10	20.01	
Lithium	**************************************	50		un a Tribia	<u> </u>
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o	-	0.5	0.0009	
Molybdenum	С	500			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Nickel	p,c,o	40	1	40.05	
Potassium		10			
Selenium	p,h,c,d		10	(0.01	

10

64/18

Silicon

8/27/82

2-414

Element	Code	Detection Flame	r Limit (ppb) Flameless	Detected	Limit
Silver	p;h,c,d,o	50	1	40.05	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	20.02	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

# الدياس المارادياس California Analytical Laboratories, Inc.

### 401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95614 (916) 444-0002

#### PRIORITY POLLUTANT DATA SHEET

LIENT	Engi	newing Science	CAL LAB NO. <u>/4772-/</u>
LIENT		MW/8D	
		· VOLATILES	ug/L
	<b>2V</b>	acrolein	nd
•	37	acrylonitrile	nd
•	4٧	benzene	nd
, ,	6V	carbon tetrachloride	nd.
	7V	chlorobenzene	nd
	107	1,2-dichloroethane	nd
	117	1.1.1-trichloroethane	nd
	13V	1,1-dichloroethane	nd
	147	1,1,2-trichloroethane	nd.
	150	1,1,2,2-tetrachloroethane	nd
	167	chloroethane	nd
	197 -	2-chloroethylvinyl ether	nd
	237	chloroform	nd
	297	1,1-dichloroethylene	nd.
	30V	1,2-trans-dichloroethylene	nd
	32V	1,2-dichloropropane	nd
	33V	1,3-dichloropropylene	nd
	38V	ethylbenzene	
	447	methylene chloride	nd
	45V	methyl chloride	nd.
	46V	methyl bromide	
	477	bromoform	Nd_
	48V	dichlorobromomethane	nd
	497	trichlorofluoromethane	nd.
	50V	dichlorodifluoromethane	nd
		chlorodibromomethane	nd
	517	tetrachloroethylene	
	<u>85V</u>		<u>Na</u>
	<u>86V</u>	toluene	nd * = Less than 10 u
	87V	trichloroethylene	
	_88 <b>y</b>	vinyl chloride 1,1,2-trichlore-2,2,1-trifluoreethane	nd nd
		1-1-6- LEICHIOFO-6-6-1- LEIT HOPOGENANC	

8/16

SOS POWER ININ ROAD SACRAMENTO, CALIFORNIA 85824 (910) 281-6105

#### PRIORITY POLLUTANT DATA SHEET

Science CAL LAB NO. 15052-9 CLIENT Engineering CLIENT I.D. VOLATILES ug/L acrolein nd 27 acrylonitrile nd _3٧ benzene nd 44 carbon tetrachloride 6٧ ma chlorobenzene na78 1.2-dichloroethane 100 2101 1,1,1-trichloroethane nd117 1.1-dichloroethane nd 137 1.1.2-trichloroethane nd 147 1,1,2,2-tetrachloroethane nol 157 chloroethane nd. 164 2-chloroethylvinyl ether nd 197 chloroform nd 237 1,1-dichloroethylene nd 297 1.2-trans-dichloroethylene na **30V** 1,2-dichloropropane **32**Y nd 1.3-dichloropropylene **33V** nd ethy1benzene **38**V nd methylene chloride 444 nd. methyl chloride 45V nd rd methyl bromide 46V nd 474 bromoform dichlorobromomethane nd 48V trichlorofluoromethane 497 nd dichlorodifluoromethane nd **50V** chlorodibromomethane nd 517 tetrachloroethylene 85V toluene 86V = Less than 10 ug/L Nd ND = Not detected trichloroethylene 877 vinyl chloride nd 1,1,2-trichloro-2,2,1-trifluoroethane

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

PRIORITY POLLUTANT DATA SHEET

			<u> </u>	
ENT	Engineering Science		CAL LAB NO. 14772 -	
			CLIENT I.D. MWISD	
	ACID COMPOUNDS	µ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A	2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	nd
22A	p-chloro-a-cresol	nd	428 bis(2-chloroisopropy1)ether	nd
244	2-chlorophenol	_nd	43B bis(2-chloroethoxy)methane	nd
31A	2.4-dichlorophenol	nd_	528 bexachlorobutadiene	nd
34A	2,4-dimethylphenol	nd	538 hexachlorocyclopentadiene	nd
57A	2-n1trophenol	nd	548 isophorone	nd
58A	4-n1trophenol	nd	558 naphthalene	na
59A	2.4-dinitrophenol	nd	56B nitrobenzene	na
60A	4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	nd
54A	pentach   oropheno	nd	62B N-nitrosodiphenylamine	nd
65A	pheno1	nd_	638 N-nitrosodi-n-propylamine	nd
			66B bis(2-ethylhexyl)phthelate	nd
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	na
. 8	acenephthene	nd	688 di-n-butyl phthalate	na
58	benzidine	nd	698 di-n-octyl phthalate	na
86	1,2,4-trichlorobenzene	nd	708 diethyl phthalate	na
98	hexach1orobenzene	nd	718 dimethyl phthalate	na
	hexachloroethene	nd	728 benzo(a)anthracene	na
	bis (2-chiloreethy)) ether	nd	738 benzo(a)ayrene	na

nd

758

**768** 

**778** 

788

79B

80B

81B

82B

83B

848

208 2-chloronachthaiene

258 1,2-41chlorebenzene

268 1,3-dichlorobenzene

278 1,4-dichlorobenzene

358 2,4-dimitrotoluene

368 2,6-dinitrotoluene

398 fluoranthene

378 1,2-diphenylhydrazine (as azobenzene)

408 4-chlorophenyl phenyl ether

288 3,3'-dichlorobenzidine

748 3,4-benzofluorsathene

acenaph thy lene

benzataht)perylene

dibenzo(a,h)anthracene

indeno(1,2,3-cd)pyren

anthracene '

phenanthrene

chrysene.

fluorene

pyrene

benzo(k)fluoranthene

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5865 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105

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### PRIORITY POLLUTANT DATA SHEET

IENT	Engineering Science			CAL LAB NO. 15052	187
	ACID COMPOUNDS	ug/L	BA	CLIENT I.D. Well SE/NEUTRAL COMPOUNDS	<u>، د ک قرا</u> ۱۰۵/۱
		,			
	,4,6-trichlorophenol	<u>na</u>	41B	4-bromophenyl phenyl ether	nd.
	-chloro-m-cresol	nd	42B	bis(2-chloroisopropyl)ether	<u> </u>
	-chlorophenol	_nd	43B	bis(2-chloroethoxy)methane	nd
	4-dichlorophenol	nd	52B	bexachlorobutadiene	nd
	2,4-dimethylphenol	<u>ra</u>	538	hexachlorocyclopentadiene	712
	-ni trophenol	_nd	<u>548</u>	isophorone	nil
	-nitrophenol	nd	55B	naphthalene	<u>nd</u>
	2,4-dinitrophenol	rd	56B	nitrobenzene	<u>na</u>
	1,6-dinitro-o-cresol	<u>nd</u>	61B	N-nitrosodimethylamine	_Nd
	entachlorophenol :	<u>nd</u>	628	N-nitrosodiphenylamine	_nd
65A p	pheno i	nd		N-nitrosodi-n-propylamine	nd
			668	bis(2-ethylhexyl)phthalate	12
	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	<u>nd</u>
1B ac	enaphthene	nd	688	di-n-butyl phthalate	nd
	enzidine	nd	698	di-n-octyl phthalate	nd
88 1,	2,4-trichlorobenzene	nd	70B	diethyl phthalate	nd
	exachlorobenzene	nd	71B	dimethyl phthalate	<u>nd</u>
	exachloroethane	nd	72B	benzo(a)anthracene	nd
	is(2-chloroethyl)ether	nd	<u>738</u>	benzo(a)pyrene	nd
	-chloronaph thalene	nd	74B	3,4-benzofluoranthene	nd
	2-dichlorobenzene	nd	75B	benzo(k)fluoranthene	nd
	,3-dichlorobenzene	nd	76B	chrysene	nd
	,4-dichlorobenzene	nd	77B	acenaphthylene	nd
. —	,3'-dichlorobenzidine	2000	788	anthracene	nel
	,4-dinitrotoluene	nd	79B	benzo(ghi)perylene	nd
	,6-dinitrotoluene	70 A	80B	fluorene	na
		nd	818	phenanthrene	24
	,2-diphenylhydrazine as azobenzene)	_nd	82R	dibenzo(a,h)anthracene	-711
	Tuoranthene	nd	83B	indeno(1,2,3-cd)pyrene	~~ n/
	-chTorophenyl phenyl ether	nd	848	pyrene	ne

## PESTICIDE/HERBICIDE REPORT FORM

Sample ID 15 T	STICIDE/HERBICIDE REPORT FORM	<b>ES</b> ID <u><b>620900</b></u>	
6/15-82	Aliqu	ot analyzed    L.	
Date Received 6/24-52		Coulson, EC, Flame, PII	
Date analyzed	Chemist	Approved	
	Detection Limits (ppb)	Found (ppb)	
Aldrin	600.0	0.01	
Alpha BHC	0.002		
Beta BHC	0.004	0105	
Delta BHC	£-004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		
DOD (TDE)	C.C12		
DDE	0.006		
DDT	c 016		
Dieldrin	C CC6		
Endosulfan I	curs		
Endosulfan II	0.01_		
Endosulfan sulfate	0.03		
Endrin	<i>େ.ପ</i> ଟ୍ର		
Heptachlor	c.ccz		
Heptachlor epoxide	c.cc4	C 417	
Methoxychlor	0.02		
Toxaphene	C.40		
2,4,D	0. ∞1	C 122	
2,4,5,T	0001	0 072	
2,4,5 TP (Silvex)	0.002		
DBCP (Dibromochloro propane	)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REFORT FORM

sample ID 115 Clellan AFB		es 10 <u>620954</u>	
Will # ED	Aliqu	ot analyzed	
Date Received 18 August 1982	. Detector Used:	Coulson, EC Flame, PID	
Date analyzed 26 Aug 82	Chemist HF	Approved	
	Detection Limits (ppb)	Found (ppb)	
Aldrin	0.003		
Alpha BHC	9.002		
Beta BHC	0.004		
Delta BHC	0.004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		
DOD (TDE)	0.012		_
DDE	0.006		B
DDT	0.016		identifiable
Dieldrin	0.006		7
Endosulfan I	0.005		fia
Endosulfan II	0.01		66
Endosulfan sulfate	0.03		pea
Endrin	0.009		à
Heptachlor	0.002		:-
Heptachlor epoxide	0.004		
Methoxychlor	0.02		
Toxaphene	0.40		
2,4,D	0.001		
2,4,5,T	0.001		1 6
2,4,5 TP (Silvex)	0.002		bi d
DBCP (Dibromochloro propane)			8. 3
ENGINEERIN	ig-science - Berkeley Labor	RATORY	t trat

# AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB  MW # 180	<b>Aliq</b> i	ES ID 820954 not Analyzed /L
Date Received 13 August 82 Date Analyzed 24 August 82	Detector Used Chemist HF	Approved
<del></del>	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242 _		
Aroclor 1248		
Aroclor 1254		
Amoolom 1260		

Not detected.

### METALS REPORT FORM

Semple ID McClellon AFB  WW # 180			ES ID <u>\$20800</u> Aliquot analyzed			
Date Received 24 June 1982			Method Used			
Date analyzed		Chemis			!	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
luminum		500	50	Apple Company of the Res		
ntimony	p,c	500	10	40.005		
rsenic	p,h,c,d,o		10	40.05		
arium	h,c,d	1,000	5			
eryllium	p,c,					
admium	p,h,c,d,o	5	0.1	0.09	·	
elcium		50				
hromium (+3)	p,h,c,d,o	20	1 Ztotal	40.05		
hromium (+6)	c		70)			
obalt		50	- 1			
opper	p,c,d,o	20	1.	20.05		
old		100	1			
ron	đ	100	ı	a para and an area and a second	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
ead	p,h,c,d,o	100	10	<b>LO-01</b>		
ithium		50			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
agnesium		1		المراجع والمعادل والمعادل المراجع المعادل والمعادل والمعا	and the first table in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	
anganese	đ	10	0.5			
ercury	p,h,c,d,o		0.5	0.0014		
olybdenum.	c:	500		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
ickel	p,c,o	40	1.	605	A S. OF THE STREET, WHICH IS TO TRANSPORT	
otassium		10	780			
Selenium	p,h,c,d		10	<b>&lt;0.01</b>		
ilicon		10				

64/18

مذام			Donostad	Limit
Code	LIAME	LT4M61622		
p,h,c,d,o	50	1	<0.05	
	10			
р,с,				
				·
c				
p,c,d,o	5	0.05	20.02	
	p,c,	Code Flame  p,h,c,d,o 50  10  p,c,	p,h,c,d,o 50 1 10 p,c,	Code Flame Flameless Detected  p,h,c,d,o 50 1

codes: p - EPA priority pollutant

h - EPA hazardous waste

c. - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		Engineening Science	CAL LAB	NO. 14537-4
CLIENT	I.D	MW 19 D		
		VOLATILES	ug/L or ug	/Kg -
	27	acrolein	ND	
	_3V	acrylonitrile	10	<del></del> .
	4٧	benzene	NO	–
	6V	carbon tetrachloride	NO	
	77	chlorobenzene	NO	
	104	1,2-dichloroethane	10	
	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	NO	
	147	1,1,2-trichloroethane	10	
	150	1,1,2,2-tetrachloroethane	NO -	
	167	chloroethane	NO	
	197	2-chloroethylvinyl ether	MD:	
	_23V	chloroform	no	• •
	29V	1,1-dichloroethylene	M)-	No company . In the company
	30V	1,2-trans-dichloroethylene	no	e e e e
	32 <b>V</b>	1,2-dichloropropane	NO.	····
	_33V	1,3-dichloropropylene	10-	managers or particle magazine the copyright way to have a fine
	38V	ethylbenzene	M)	بيغو يوديا
	447	methylene chloride	110-	mile gape them community is
	45V	methyl chloride	10	
	46V	methyl bromide	no-	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	474	bromoform	10	
	487	dichlorobromomethane	ap	
	497	trichlorofluoromethane	10	
	50V	dichlorodifluoromethane	10	-
	517	chlorodibromomethane	<u> </u>	
	85V	tetrachloroethylene	no	and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th
	86V	toluene		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	87V	trichloroethylene	10 -	ND = Not detected
	887	vinyl chloride	<u></u>	
		71171 9111-911-96	793	

8/16

S865 POWER INN ROAD SACRAMENTO, CALIFORNIA 86624 (818) 381-6105 .

CLIENT	<i>U</i> .	NIN 19D	CAL LAB	NO. <u>/5052-/2</u>
		VOLATILES	ug/L	<del></del>
	2V	acrolein	nd-	,
	3٧	acrylonitrile	nd	• •
	47	benzene	nd	
	6V	carbon tetrachloride	nd	-
	77	chlorobenzene	20	
	100	1,2-dichloroethane	na	
	117	1,1,1-trichloroethane	nd	
	13V	1,1-dichloroethane	nd	Annual to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
	147	1,1,2-trichloroethane	nd	A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR
	150	1,1,2,2-tetrachloroethane	nd	i and and a substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance o
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	237	chloroform	rd	
	29V	1,1-dichloroethylene	nd	
	30V	1,2-trans-dichloroethylene		
	32V	1,2-dichloropropane	na	V. 34. * * * * * * * * * * * * * * * * * * *
		1,3-dichloropropylene	nd nd	
	33V 38V	ethyl benzene		The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
	44V	methylene chloride	nd	
	45V	methyl chloride		
	46V	methyl bromide	<u>nd</u>	المنافقين المواد المالية
	477	bromoform	nd nd	*. *******
	48V	dichlorobromomethane	nd	
	497	trichlorofluoromethane	nd	Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and the Company and th
	50V	dichlorodifluoromethane		
	517	chlorodibromomethane	nd	
	85V_	tetrachloroethylene	nd	<del>-</del> - · · · · · · · · · · · · · · · · · ·
	86V	toluene	nd	• • I • • • • • • • • • • • • • • • • •
	87Y	trichloroethylene		* = Less than 10_ug/L ND = Not detected
	887	vinyl chloride	nd	
		1.1.2-trichloro-2.2.1-trifluoroethane	nd vd	
			# LA -	•

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

IENT <u>Engineering Science</u>		CAL LAB NO. 14556 -4
		CLIENT I.D
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS 49/L
21A 2,4,6-trichlorophenol	N	418 4-bromophenyl phenyl ether $N$
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether /
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane $\widehat{N}$
31A 2,4-dichlorophenol	ND	43B bis(2-chloroethoxy)methane $\widehat{N}$ 52B bexachlorobutadiene $\widehat{N}$
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene M
57A 2-nitrophenol	ND	54B isophorone $\sqrt{N}$
58A 4-nitrophenol	M	55B naph thalene
59A 2,4-dinitrophenol	ND	56B nitrobenzene
60A 4,6-dinitro-o-cresol	Ń	61B N-nitrosodimethylamine $\sqrt{\Omega}$
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine
65A phenol	ND	638 .N-nitrosodi-n-propylamine $\widehat{\mathcal{N}}$
		668 bis(2-ethylhexyl)phthalate $\widehat{NI}$
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate N
1B acenaphthene	ND	688 di-n-butyl phthalate $N$
58 benzidine	M	698 di-n-octyl phthalate $N$
8B 1,2,4-trichlorobenzene		708 diethyl phthalate N
9B hexachlorobenzene	W)	71B dimethyl phthalate $N$
12B hexachloroethane	$\sqrt{y}$	72B benzo(a)anthracene N
188 bis(2-chloroethyl)ether	$\sim$	738 benzo(a)pyrene $\sqrt{N}$
20B 2-chloronaphthalene	ND	748 3,4-benzofluoranthene N
258 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene
268 1,3-dichlorobenzene	M	76B chrysene //
278 1,4-dichlorobenzene	ND	77B acemaphthylene
288 3,3'-dichlorobenzidine	ND	788 anthracene //
358 2,4-dinitrotoluene	ND	79B benzo(ghi)perylene 📈
36B 2,6-dinitrotoluene	ND	80B fluorene $\sqrt{l}$
37B 1,2-diphenylhydrazine		81B phenanthrene /V)
(as azobenzene)	<i>N</i> D	828 dibenzo(a,h)anthracene N
398 fluoranthene	ND ND	83B indeno(1,2,3-cd)pyrene N
408 4-chlorophenyl phenyl ether	(A)	848 pyrene N

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3/16

		CAL LAB NO. 15052-	/ 2
ENT <u>Engineering Science</u>		CLIENT 1.D. Well 19	7
ACID COMPOUNDS	<b>/</b> 1	BASE/NEUTRAL COMPOUNDS	μg/L
ACID COMPOUNDS	µg/L	•	
21A 2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	ne
22A p-chloro-m-cresol	<u>nd</u>	42B bis(2-chloroisopropyl)ether	$\gamma$
24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane	<u> </u>
31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	<u> </u>
34A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	77.
57A 2-nitrophenol	na	54B isophorone	Y.4
58A 4-nitrophenol	nd	55B naphthalene	<u> </u>
59A 2,4-dinitrophenol	nd	56B nitrobenzene	γ.
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	n
64A pentachlorophenol	nd	62B N-nitrosodiphenylamine	ر الر
65A phenol	nd	63B N-nitrosodi-n-propylamine	797
		66B bis(2-ethylhexyl)phthalate	<del>-</del> <del>X</del>
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	71
18 acenaphthene	nd	68B di-n-butyl phthalate	7
5B benzidine	rd 1	698 di-n-octyl phthalate	
8B 1,2,4-trichlorobenzene	*/	70B diethyl phthalate	21
9B hexachlorobenzene	nd	71B dimethyl phthalate	_2
128 hexachloroethane	na	72B benzo(a)anthracene	7
188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	2
208 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene	$\gamma_{\mathscr{U}}$
258 1,2-dichlorobenzene	na	75B benzo(k)fluoranthene	no
268 1,3-dichlorobenzene		76B chrysene	21
278 1,4-dichlorobenzene	nd	77B acenaphthylene	71
288 3,3'-dichlorobenzidine	nd	788 anthracene	
358 2,4-dinitrotoluene	200	798 benzo(ghi)perylene	2
36B 2,6-dinitrotoluene	na	80B fluorene	71
378 1,2-diphenylhydrazine		818 phenanthrene	71
(as azobenzene)	nd	828 dibenzo(a,h)anthracene	-91
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	- J1
408 4-chlorophenyl phenyl ether	nd	848 pyrene	70

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID 11/10/1910		ES ID <u>\$26623</u>
	Aliqu	ot analyzed
Date Received 4/29-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	<i>0.00</i> 4	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DDT	0.016	
Dieldrin	C.006	
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	c.00Z	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	C.668
2,4,5,T	oai	
2,4,5 TP (Silvex)	0.002	C.003
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClellan AFB		es 10 <u>820966</u>
Nell # AD	Aliqu	oot analyzed/L,
Date Received IEAudicst, 1962	Detector Used:	Coulson, EC Flame, PID
Date analyzed 26 Aug 82	Chemist AF	Approved
	Detection Limits (PPU)	Pound (ppb)
Aldrin	0.003	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	2.006
DDT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	∠.004
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID McClellan AFB					
mw # 19 D	Aliqu	not Analyzed /L			
Date Received/8 August 1982  Date Analyzed-26 August 1982	Detector Used: EC Coulson, Flame, PID  Chemist ## Approved				
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221	<u> </u>				
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

#### METALS REPORT FORM

Sample ID McC	lellan AFB			ES ID	0623	_
mw # 1			A1	iquot analyzed	<del></del>	_
Date Received	29 April 1982		Me	thod Used		-
Date analyzed	<del></del>	Chemist _		Approved		_
Element	Code	Detection Li Flame	mit (ppb) Flameless	Detected	Limit	<u> </u>
Aluminum		500	50			
Antimony	p,c	500	10	<0.005		<b>-</b>
Arsenic	p,h,c,d,o		10	<0.05		_
Barium	h,c,d	1,000	5			
Beryllium	p,c,					_
Cadmium	p,h,c,d,o	5	0.1	<0.01		
Calcium		50	***			
Chromium (+3)	p,h,c,d,o	20	1 total	<0.05		
Chromium (+6)	c		10)			-
Cobalt		50	1			
Copper	p,c,d,o	20	1	<b>40.05</b>		
Gold		100	1		_	<del>-</del>
Iron	d	100	1		-	
Lead	p,h,c,d,o	100	10	(0.01		
Lithium		50				
Magnesium		1				<del>-</del>
Manganese	d	10	0.5			
Mercury	p,h,c,d,o		0.5	0.013		
Molybdenum	С	500				
Nickel	p,c,o	40	1	<0.05		
Potassium		10				
Selenium	p,h,c,d	440	10	<0.01		

10

64/18

Silicon

8/27/82

2-432

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1		
Sodium		10	<del></del> ,	<0.0 <b>5</b>	_i
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.13	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		Engineering Science	CAL LAB NO.	14536-5
CLIENT	I.D.	MW 20 D		
	•			
		VOLATILES	ug/L or ug/Ko	l
	27	acrolein	ND	
	3٧	acrylonitrile	ND	
	47	benzene	no	
	6V	carbon tetrachloride	us.	
	77	chlorobenzene	ND	
	107	1,2-dichloroethane	10	
	117	1,1,1-trichloroethane	M)	
	137	1,1-dichloroethane	10	
	147	1,1,2-trichloroethane	10-	
	150	1,1,2,2-tetrachloroethane	M)	
	167	chloroethane	NO	···
	197	2-chloroethylvinyl ether	10	
	237	chloroform	no	
	29V	1,1-dichloroethylene	no-	
	30V	1,2-trans-dichloroethylene	WD	
	32 <b>Y</b>	1,2-dichloropropane	MD	age waster
	337	1,3-dichloropropylene	10-	
	38V	ethylbenzene	no ····	
	447	methylene chloride	м,	
	45V	methyl chloride	<u></u>	
	46V	methyl bromide	<u> </u>	<u></u> .
	474	bromoform	no-	
	<u>48V</u>	dichlorobromomethane		
	497	trichlorofluoromethane	10	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
	50 <b>Y</b>	dichlorodifluoromethane	10	ه مداد المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية 
	517	chlorodibromomethane	NO	
•	85V	tetrachloroethylene	UD	
	86V	toluene	10	in approximates a superior construction of the district proximate of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the super
	877	trichloroethylene		) = Not detected
	887	vinyl chloride	no -	ang endangsalang selasi antara ar samatenang selasi antara en ar samatenang selasi selasi selasi selasi selasi

3/11

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15015-2 CLIENT I.D.: 20D FROM PUMP

PP#	<u>VOLATILES</u>	ug/L
2V	acroleinacrylonitrile	M
3V	acrylonitrile	MD
47	benzene	ND
6V	carbon tetrachloride	
77	chlorobenzene	תא
10V	chlorobenzene 1,2-dichloroethane	תמ —
117		
137	i.l.=Glcnioroernene	
147	1,1,2-trichloroethane 1,1,2,2-tetrachloroethane	עה מא
157	1,1,2,2-tetrachloroethane	ND
167	chloroethane	עויי איני
197	2-chloroethylvinyl ether	ND
237	chloroform	ND
297		
30V	1,2-trans-dichloroethylene	עוא
327	1.2-dicutoropropane	117
33V	T.3-GICHTOLOBLOBATON	NT.
38V	ethylbenzene methylene chloride	און
447	methylene chloride	תת
457	methat curoride	NT.
467	methyl bromite	NIT.
479	bromoform dichlorobromomethane	ND
48V	dichlorobromomethane	MD MD
497		
- 507	ULCHIDEONITIUMEMERSANA	
517	CUTOLOG J DLOBOSE LUSUS	1991
85V	rerigcutologruateue	MTN
86V	toluene	MD
877	trichloroethylene	W
887	vinyl chloride	ND
	* less than lOug/L	ND
	NDs not detected	

COMMENTS:

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9602

CLIENT <u>Engineering</u> Sc	rience	CAL LAB NO. 14556 - 5	<u> </u>
ACID COMPOUNDS	w <b>a</b> /l	CLIENT I.D. MW 20 D  BASE/NEUTRAL COMPOUNDS ug/	
<del></del>	μg/L	,	_
21A 2,4,6-trichloropher		<del></del>	N
22A p-chloro-m-cresol	<i>N</i> D	428 bis(2-chloroisopropyl)ether	ΔÎ
24A 2-chlorophenol	$\mathcal{M}$	438 bis(2-chloroethoxy)methane	M
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene /	VĮ
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene /	V]
57A 2-nitrophenol	$\widehat{M}$		Ń
58A 4-nitrophenol	$\mathcal{N}\mathcal{D}$	55B naphthalene /	<u> </u>
59A 2,4-dinitrophenol	ND	56B nitrobenzene /	V)
60A 4,6-dinitro-o-creso	N		N
64A pentachlorophenol	<i>N</i> D	62B N-nttrosodiphenylamine	NI.
65A phenot	ND	63B .N-nitrosodi-n-propylamine	V)
•			$\Delta \hat{Q}$
BASE/NEUTRAL CON	<u>IPOUNDS</u>	678 butyl benzyl phthalate	$\Delta \tilde{l}$
18 acenaphthene	ND	688 di-n-butyl phthalate /\	VI)
5B benzidine	ND	698 di-n-octyl phthalate //	
8B 1,2,4-trichlorobenze		708 diethyl phthalate $N$	$\mathcal{D}$
9B hexachlorobenzene	Ň	718 dimethyl phthalate /	VI.
12B hexachloroethane	ND	72B benzo(a)anthracene	ΔĨ
18B bis(2-chloroethyl)e		73B benzo(a)pyrene	M
20B 2-chloronaphthalene	M)	74B 3,4-benzofluoranthene /	۷Ì
25B 1,2-dichlorobenzene	ND.	75B benzo(k)fluoranthene	Δ
26B 1,3-dichlorobenzene	MD.	76B chrysene (	VÌ.
27B 1,4-dichlorobenzene	ND.		Ń
288 3,3'-dichlorobenzid			$\sqrt{\Omega}$
358 2,4-dinitrotoluene	MD		á
368 2,6-dinitrotoluene	ND ND	` <del>````````````````````````````````````</del>	Ń
378 1,2-diphenylhydrazi			ΔĴ
(as azobenzene)	ND.		Δź
398 fluoranthene	Ŵ		VI
408 4-chlorophenyl phen			V

CHARLES J. SODEROUIST, Ph.D. VICE PRESIDENT

CLIENT:

ANTHONY S. WONG, Ph.D. VICE PRESIDENT

RUBY A. ULRICH SECRETARY/TREASURER

### California Analytical Laboratories, Inc.

SEES POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

8/11

#### PRIORITY POLLUTANT DATA SUMMARY SHEET

CAL LAB NO. 15015-2 ENGINEERING SCIENCE CLIENT I.D.: WELL 20D ✓

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	_ ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	<u> </u>
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	_ ND
34A 2,4-dimethylphenol	_ ND	53B hexachlorocyclopentadiene	_ ND
57A 2-mitrophenol	_ ND	54B isophorone	ДЙD
58A 4-nitrophenol	ND	55B naphthalene	_ ND
59A 2,4-dinitrophenol	_ ND	56B nitrobenzene	_ ND
60A 4,6-dinitro-o-cresol	_ ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	_ ND	62B N-nitrosodiphenylamine	_ ND
65A phenol	_ ND	63B N-nitrosodi-n-propylamine	ND
	_	66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
1B acenaphthene	ND	68B di-n-butyl phthalate	ND
5B benzidine	MD /	69B di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	<b>-</b> * /	70B diethyl phthalate	ND
9B hexachlorobenzene	ND	71B dimethyl phthalate	ND
12B hexachloroethane	ND	72B benzo(a)anthracene	ND
18B bis(2-chloroethyl)ether	_ D	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene		74B 3,4-benzofluoranthene	
25B 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene	ND	76B chrysene	ND
27B 1,4-dichlorobenzene		77B acenaphthylene	MD, .
28B 3,3'-dichlorobenzene		78B anthracene	<u>,*</u>
35B 2,4-dinitrotoluene		79B benzo(ghi)perylene	ND
36B 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1.2-diphenylhydrazine		81B phenanthrene	ND
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	ND
39B fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
408 4-chlorophenyl phenyl ether	_ ND	84B pyrene	ND

^{*} = less than a detection limit of 10 ug/L ND= not detected

### PESTICIDE/HERBICIDE REFORT FORM

Sample ID LUC 200	ES ID <u>830632</u>				
	Aliquot analyzed				
Date Received 4/29-82	Detector Used:	Coulson, EC, Flame, PID			
Date analyzed	Chemist LIB	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	C. CC3				
Alpha BHC	0.002				
Beta BHC	0.004				
Delta BHC	2.004				
Gamma BHC (lindane)	0.007				
Chlordane	0.04				
DDD (TDE)	C.012				
DDE	0.666				
DDT	c 016				
Dieldrin	C.006				
Endosulfan I	c.cc5	_			
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
Endrin	0.009				
Heptachlor	c.ccz				
Heptachlor epoxide	c.cc4				
Methoxychlor	0.62				
Toxaphene	C.40				
2,4,D	0.001				
2,4,5,T	0001				
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)					

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ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Mc Clellan AFB		ES ID <u>826924</u>	
- Well # 20D	Aliq	uot analyzed 12.	
Date Received 114662	Detector Used:	Coulson, E Flame, PID	
Date analyzed Z6 Aug 82	Chemist #	Approved	
	Detection Limits	Found (ppb)	
Aldrin	0.003		
Alpha BHC	0.002		
Beta BHC	0.004		BO
Delta BHC	0.004		ğ.
Gamma BHC (lindane)	0.002		3,
Chlordane	0.04		identifiable
DDD (TDE)	0.012	·	260
DDE	0.006		6,
DDT	0.016		Ž
Dieldrin	0.006		3
Endosulfan I	0.005		
Endosulfan II	0.01		
Endosulfan sulfate	0.03		
Endrin	0.009		
Heptachlor	0.002	<del></del>	
Heptachlor epoxide	0.004	· · · · · · · · · · · · · · · · · · ·	
Methoxychlor	0.02		_
Toxaphene	0.40	<u> </u>	· · · · · · · · · · · · · · · · · · ·
2,4,D	0.001		
2,4,5,T	0.001		200
2,4,5 TP (Silvex)	0.002		66
DBCP (Dibromochloro propane)	\$ ₁ ,	· · · · · · · · · · · · · · · · · · ·	idn
engineeri	ng-science - Berkeley Labo	RATORY	hable peaks

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Cle/lon AFB	<u>8</u> ES ID <u>82092</u>				
mus # 200	Detector Used: (EC) Coulson, Flame, PID  Chemist HF Approved				
Date Received / August 1982  Date Analyzed 26 August 1982					
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221	<u> </u>				
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

		METALS R	EPORT FORM			
Sample ID McC					06.32	_
				Aliquot analyzed Method Used		_
Date Received		Chemist				
Date analyzed		CHEMISE				<u>-</u>
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit	
Aluminum		500	50	•		
Antimony	p,c	500	10	<0.005		<u>.</u>
Arsenic	p,h,c,d,o		10	<0.05		<u></u>
Barium	h,c,d	1,000	5			_
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	<0.01		<u>_</u>
Calcium		50		***		
Chromium (+3)	p,h,c,d,o	20	1 {t	ola1 <0.05	- 135	
Chromium (+6)	c		10		~	<u></u>
Cobalt		50	1			
Copper	p,c,d,o	20	1	<0.05		
Gold		100	1		- /-	
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	<0.01		
Lithium	<del></del>	50				
Magnesium	<del></del>	1				
Manganese	d	10	0.5			
Mercury	p,h,c,d,o		0.5	L0.0005		
Molybdenum	c	500				
Nickel	p,c,o	40	1	40.05	s as an experience of the second second	
Potassium	······································	10				<del></del>

10

10

L0.01.

64/18

Selenium

Silicon

p,h,c,d

**8/27**/82

2-441

Detection Limit (ppb)						
Element	Code	Flame	Flameless	Detected	Limit	
Silver	p,h,c,d,o	50	1	⟨0.05		
Sodium		10				
Thellium	p,c,					
Tin						
Vanadium	С					
Zinc	p,c,d,o	5	0.05	L0.05		

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

والمعاوض والرار

#### 5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-5105 __-

		nuring Science	CAL LAB	NO. 14772-10
CLIENT	I.D	MW2D		-
		VOLATILES	ug/L	
	_2 <b>V</b>	acrolein	ind	
	3٧	acrylonitrile	nd	
	4٧	benzene	nd	• •
	_6V	carbon tetrachloride	nd	
	71	chlorobenzene	nd	
	107	1,2-dichloroethane	nd	
•	117	1,1,1-trichloroethane	nd	
	13V	1,1-dichloroethane	nd	•
	147	1,1,2-trichloroethane	·nd	
	15V	1,1,2,2-tetrachloroethane	nd	
	16V	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd	
	29V	1,1-dichloroethylene	nd	
	30 <b>V</b>	1,2-trans-dichloroethylene	nd	
	32 <b>V</b>	1,2-dichloropropane	nd	•
	33V	1,3-dichloropropylene	nd.	<b></b>
	387	ethy1benzene	nd	
	447	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	
	477	bromoform	nd	
	48V	dichlorobromomethane	nd	
	497	trichlorofluoromethane	nd	
	50V	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	
	85V	tetrachloroethylene	nd	
	86V	toluene	nd.	* = Less than 10 ug/L
	87V	trichloroethylene	nd.	ND = Not detected
	V88	vinyl chloride	nd	
		1,1,2-trichloro-2,2,1-trifluoroethane		

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-1 CLIENT I.D.: #21 D

PP#	VOLATILES	ug/L
27	acrolein	ND
3V	acrolein acrylonitrile	ND
47	benzene	ND
6V	carbon tetrachloride	MD ND
7V	chlorobenzene 1,2-dichloroethane	ND
10V	1,2-dichloroethane	MD ND
117	T*Y*Y=rtitchtotoernane	MT
137	l.L.~GlCD!OTO@fDAD@	M
147	1,1,2-trichtoroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
167	cutorostuans	ND
197	2-chloroethylvinyl ether	ND
237	chloroform	ND
29V	chloroform 1,1-dichloroethylene 1,2-trans-dichloroethylene	ND
30V	1,2-trans-dichioroethyiene_	ND
32V	1 7 44.661	ND
33V	1,3-dicutoropropytene	ND
38V	ethylbenzene methylene chloride	—— ИД
44V	methylene chloride	ND
45V	MECHAT CUTOLIGE	MT.
46V	methyl bromide	ND
477	44-61	ND
487	trichlorofluoromethane	—— йр
497	dichlorodifluoromethane	ND
· 50V		—— ND
517		—— ND
85V	tol ware	ND
867	trichlorosthylene	— WD
87V	trichloroethylene	<u>— М</u>
88V	* less than lOug/L	ND
	ND= not detected	

COMMENTS:

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (816) 444-8807

- Commission and		CAL LAS NO. 14772	-10
T Engineering Science	<u>'</u>	CLIENT I.D. MW2	10
ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
1A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	ond
2A p-chloro-a-cresol	nd	42B bis(2-chloroisopropy1)ether	nd
4A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd
11A 2,4-dichlorophenol	nd	528 bexachlorobutadiene	na
4A 2.4-dimethylphenol	nd,	53B hexachlorocyclopentadiene	nd
7A 2-nitrophenol	nd	54B isophorone	nd
68A 4-n1trophenol	nd	55B naphthalene	nd
59A 2.4-dinitrophenol	nd	56B nitrobenzene	nd,
60A 4,6-dinitro-o-cresol	na	61B N-nitrosodimethylamine	nd
64A pentachlorophenol	nd	623 N-nitrosodiphenylamine	nd
65A phene1	nd	63B N-nitrosodi-n-propylamine	nd
		66B bis(2-ethylhexyl)phthalate	na
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	nd
8 acenaphthene	nd	688 di-n-butyl phthalate	nd
58 benzidine	nd	698 di-n-octyl phthalate	nd
88 1,2,4-trichlorobenzene	nd	708 diethyl phthalate	nd
98 hexachlorobenzene	nd	718 dimethyl phthalate	na
128 hexachlorgethane	nd	72B benzo(a)anthracene	no
186 bis(2-chloreethyl)ether	nd	73B benzo(a)pyrene	na na
208 2-chlereneshthelene	md	748 3,4-benzofluorenthene	na
258 1,2-dichlorebenzene	<u>nd</u>	758 benzo(k) fluoranthene	na
26B 1,3-dichlorobenzene	nd	76B chrysene	- Ma
278-1:4-dichlorobenzene	nd	77B acenaphthy tene	na
288-3,3'-dichiorobenzidine	nd	788 anthracens	ma
358 2,4-dinitratalyana	nd	798 benzo(ght)perylene	710
368-2-6-dini trotoluene	nd	808 fluorene	M
378-1;2-diphenylhydrazine		818 phenanthrene	n
(as azobenzene)	nd	828 dibenzo(a,h)anthrecene	no
398 fluoranthene	nd	838 indeno(1,2,3-cd)pyrene	m
408 4-chlorophenyl phenyl ether	nd	848 pyrene	no

SOOS POWER INN ROAD SACRAMENTO, CALIFORNIA 98824 (910) 301-5105

PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT: ENGINEERING SCIENCE CAL LAB NO.

15031-1 #21 D

CLIENT I.D.:

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND 4	1B 4-bromophenyl phenyl ether	
22A p-chtoro-m-crosol		2B bis(2-chloroisopropyl)ether	
24A 2-chlorophonol	ND 4	3B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND 5		ND -
34A 2,4-dimethylphenol	ND 5	3B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND 5	4B isophorone	ND
58A 4-nitrophenol59A 2.4-dinitrophenol	ND 5	5B naphthalene	ND
59A 2,4-dinitrophenol	ND 5	6B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND 6	1B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND 6	2B N-nitrosodiphenylamine	- ND
65A phenot	ND 6	3B N-nitrosodi-n-propylamine	ND -
	6	6B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS	6	7B butyl benzyl phthalate	ND
1B acenaphthene		8B di-m-butyl phthalate	
5B benzidine		9B di-n-octyl phthalate	ND
8B 1,2,4-trichlorohenzene	* 7	OB diethyl phthalate	ND
9B hexachlorobenzene	ND 7	1B dimethyl phthalate	ND
12B hexachloroethane		2B benzo(a)anthracene	
18B bis(2-chlorocthyl)ether	ND 7	3B benzo(a)pyrene	ND
20B 2-chioronaphthalene	ND 7	4B 3,4-benzofluoranthene	. ND
25B 1,2-dichlorobenzene	ND 7	5B benzo(k)fluoranthene	-ND
26B 1,3-dichlorobenzene	ND 7	6B chrysene	. ND
27B 1,4-dichlorobenzene	ND 7	7B acenaphthylene	. ND
28B 3,3*-dichlorobenzene	ND 7	8B anthracene	ND
35B 2,4-dinit rotaluene		9B benzo(ghi)perylene	ND
36B 2.6-dinitrotoluene		OB fluorene	ND
378 1,2-diphenylhydrazine	8	1B phenanthrene	ND
(as azobenzene)	ND 8	2B dibenzo(a,h)anthracene	ND
398 fluoranthene	ND 8	3B indeno(1,2,3-cd)pyrene	ND
40B 4-chlorophonyl phenyl other		4B pyrene	ND

⁼ less than a detection limit of 10 ug/L

ND = not detected

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID MW 217		ES ID 820791	
6/15-8.2	Aliqu	ot analyzed	
Date Received	Detector Used:	Coulson, E. Flame, PID	
Date analyzed	Chemist LIB	Approved	
	Detection Limits (ppb)	Found (ppb)	
Aldrin	c. c·c-3	0.012	•
Alpha BHC	0.002		
Beta BHC	0.004		
Delta BHC	D-004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		
DOD (TDE)	C.012		
DDE	0.006		
DDT	c.cil		
Dieldrin	5.056		
Endosulfan I	c.005	c.008	
Endosulfan II	0.01		
Endosulfan sulfate	0.03		
Endrin	0.009		
Heptachlor	C.CCZ		
Heptachlor epoxide	c.cc4		
Methoxychlor	0.02		
Toxaphene	C.40		
2,4,D	0.001	0.175	
2,4,5,T	0.001	0.044	
2,4,5 TP (Silvex)	0.002	C.4Z	
DBCP (Dibromochloro propane)			
4. <u>4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4</u>			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID Mª Clellan AFB		es id <u>820928a</u>	
Well # 21 D	Aliqu	ot analyzed 10	
Date Received 13 Aug 92	Detector Used:	Coulson, EC Flame, PID	
Date Received 13 Aug 82 Date analyzed 26 Aug 82	Chemist HF	Approved	
	Detection Limits (ppb)	Found (ppb)	_
Aldrin	0.003		
lpha BHC	0,002		
eta BHC	0.004		
elta BHC	0,004		
Samma BHC (lindane)	0.002		
hlordane	0.04		
OD (TDE)	0.012		
DE	0.006		
DT	0.016		
ieldrin	0.006		
ndosulfan I	0.005		
ndosulfan II	0.01		
ndosulfan sulfate	0.03		•
ndrin	0.009		
eptachlor	0.002		
eptachlor epoxide	0.004		
ethoxychlor	0.02		
oxaphene	0.40		
, 4, D	0.001		_
,4,5,T	0.001	2,001	•
2,4,5 TP (Silvex)	0.002		
BCP (Dibromochloro propane)			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB  MW #210	ES ID 820928 a. Aliquot Analyzed /L			
Date Received 13 August 1982  Date Analysed 26 August 1982		EC, Coulson, Flame, PID		
	Detection Limits (ppb)	Found (ppb)		
Aroclor 1016				
Aroclor 1221				
Aroclor 1232				
Aroclor 1242				
Aroclor 1248				
Aroclor 1254				
Aroclor 1260				

Not detected.

### METALS REPORT FORM

Sample ID McClellon AFB		ES ID <u>82079</u> /
MW # 21 D	•	Aliquot analyzed
Date Received 24 June 1982		Method Used
Date analyzed	Chemist	Approved

Element	Code	Detection Flame	flameless	Detected	Limit	and on a second to a
Aluminum		500	50			
Antimony	p,c	500	10	40.005		<b></b> -
Arsenic	p,h,c,d,o	-	10	0.05		<b>-</b>
Berium.	h,c,d	1,000	5			
Beryllium	p,c,					<b>-</b>
Cadmium	p,h,c,d,o	5	0.1	<b>40.01</b>		<b>-</b>
Calcium		50				_
Chromium (+3)	p,h,c,d,o	20	1 } tota	1 <0.05		•
Chromium (+6)	c		10)		<del></del>	_
Cobelt		50	1		2	-
Copper	p,c,d,o	20	1	<b>40.05</b>		<b>-</b>
Gold		100	1			-
Iron	đ	100	1			
Lead	p,h,c,d,o	100	10	∠0.01		_
Lithium		50				
Magnesium		1				-
Manganese	đ	10	0.5			_
Mercury	p,h,c,d,o		0.5	<i>&lt;0.0005</i>		-
Molybdenus.	c	500				
Nickel	p,c,o	40	1	<u> </u>		•
Potassium		10	444	Target San Carlot		
Selenium	p,h,c,d		10	<0.01		
Silicon		10				•

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8/27/82

2-450

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit	
Silver	p,h;c,d,o	50	1	<0.05	namenana da pangi kalan da a a a a a a a a a a a a a a a a a	The support of the same support of the support of t
Sodium		10		ن د د د د د د د د د د د د د د د د د د د		· 
Thallium	p,c,			- max - max		ا الصد سفد
Tin				and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
Vanadium	c					
Zinc	p,c,d,0	5	0.05	<0.02		

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

4/29 pargle

## California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT I.D. Engineening Science CAL LAB NO. 1453  CLIENT I.D. MW 22 D  VOLATILES  2V acrolein  3V acrylonitrile  MD	
2V acrolein ND	
4y benzene 10	
6V carbon tetrachloride M	
7V chlorobenzene no	
10V 1,2-dichloroethane	
11V 1,1,1-trichloroethane	
13V 1,1-dichloroethane no	
14V 1,1,2-trichloroethane	
15V 1,1,2,2-tetrachloroethane AD	
16V chloroethane no	
19V 2-chloroethylvinyl ether 10	•
23V chloroform un	
29V 1,1-dichloroethylene NO	
30V 1,2-trans-dichloroethylene NO	
32V 1,2-dichloropropane NO	
33V 1,3-dichloropropylene ao	
38V ethylbenzene (M)	
44V methylene chloride M	
45V methyl chloride no	
46V methyl bromide NO	· - <b>-</b>
47V bromoform No	
48V dichlorobromomethane NO	- <u>-</u>
49V trichlorofluoromethane NO	
50V dichlorodifluoromethane no	
51V chlorodibromomethane ho	
85V tetrachloroethylene no	
86V toluene /np	-
879 trichloroethylene no ND = Not det	ected
88V vinyl chloride	· · ·

5 3

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-4 CLIENT I.D.: #22 D

PP#	VOLATILES	ug/L
2 <b>V</b>	acrolein	ND
3 <b>V</b>	acrylonitrile	MD ND
4V	benzene	MD ND
6V	carbon tetrachloride	MD ND
7 <b>V</b>	chlorobenzene	MD
107	1,2-dichloroethane	ND
117		ND
137		MD ND
	1,1,2-trichloroethane	ND
	1,1,2,2-tetrachloroethane	
167	chloroethane	MD
19V	2-chloroethylvinyl ether	MD ND
	chloroform	MD ND
	1,1-dichloroethylene	ND
	1,2-trans-dichloroethylene_	ND
	1,2-dichloropropane	ND
33V		MD
38V	ethylbenzene	ND
44V		MD ND
45V		MD ND
46V		MD ND
	bromoform	MD ND
48V	dichlorobromomethane	MD ND
	trichlorofluoromethane	ND
- 507		ND
517		ND
85V		<u> и</u> д
	toluene	ND
	trichloroethylene	ND
88V		ND
	* less than 10ug/L	
	ND= not detected	

COMMENTS:

1.35-1.786-12

401 NORTH 16th STREET CRAMENTO, CALIFORNIA 95814 (916) 444-9602

LIENT <u>Engineering</u> Science		CAL LAB NO. 14556	-8
		CLIENT 1.D. <u>MW 22</u>	$\mathcal{D}_{-}$
ACTD COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	428 bis(2-chloroisopropyl)ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A 2,4-dimethylphenol	$\mathcal{N}$	53B hexachlorocyclopentadiene	<u> ND</u>
57A 2-nitrophenol	ND ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	_W
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	MD	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	$\mathcal{N}$	62B N-nitrosodiphenylamine	M
65A phenol	ND	63B N-nitrosodi-n-propylamine	ŃD
		66B bis(2-ethylhexyl)phthalate	M
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
1B acenaphthene	ND_	68B di-n-butyl phthalate	ND
58 benzidine	ND	69B di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
9B hexachlorobenzene	ND	71B dimethyl phthalate	ND
12B hexachloroethane	Ń	72B benzo(a)anthracene	_ND
188 bis(2-chloroethyl)ether	MD	73B benzo(a)pyrene	ND
20B 2-chloronaphthalene	M)	748 3,4-benzofluoranthene	ND
25B 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	-MD
268 1,3-dichlorobenzene	(I)	768 chrysene	_W
27B 1,4-dichlorobenzene	Ŕ	77B acenaphthylene	
288 3,3'-dichlorobenzidine	ND	78B anthracene	ND
35B 2,4-dinitrotoluene	MD	798 benzo(ghi)perylene	ND.
36B 2,6-dinitrotoluene	M	80B fluorene	<u> </u>
37B 1,2-diphenylhydrazine		81B phenanthrene	$-\sqrt{y}$
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	<u> M</u>
398 fluoranthene	M M	838 indeno(1,2,3-cd)pyrene	<u> </u>
408 4-chlorophenyl phenyl ether	M	84B pyrene	· MD ·

ANTHONY S WONG, Ph D VICE PRESIDENT

RUBY A. ULRICH SECRETARY/TREASURER

### California Analytical Laboratories, Inc.

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5885 POWER INN ROAD SACRAMENTO, GALIFORMA 95824 (916) 381-5105

#### PRIORITY POLILITANT DATA SUMMARY SHEET

CLIENT: ENGINEERING SCIENCE

CAL LAB NO.

15031-4

CLIENT I.D.:

# 22 D

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol_	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether_	ND -
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND.
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethy1phenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-mitrophenol	ND	54B isophorone	
58A 4-mitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
58A 4-nitrophenol 59A 2,4-dinitrophenol 60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
<u> </u>		66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
1B accomplithene	ND	68B di-n-butyl phthalate	
SB tienzidine	ND	69B di-n-octyl phthalate	
8B 1,2,4-trichlorobenzene	*✓	70B diethyl phthalate	ND _
9B hexachlorobenzene	ND	71B dimethyl phthalate	ND
12B hexachioroethane	ND	72B benzo(a)anthracene	ND
18B bis(2-chlorocthyl)ether		73B benzo(a)pyrene	
20B 2-chloronaphthalene		74B 3,4-benzofluoranthene	
25B 1,2-dichlorobenzene		75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene		76B chrysene	ND
27B J,4-dichlorobenzene		77B acenaphthylene	
28B 3,3'-dichlorobenzene		78B anthracene	ND
35B 2,4-dinit rotaluenc	ИD	79B benzo(ghi)perylene	
368 2,6-dinitrotalucne	ND	80B fluorene	
37B 1.2-diphenylhydrazine		81B phenanthrene	ND
(as azobenzene)		82B dibenzo(a,h)anthracene	ND
39B Tuoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
408 4-chlorophonyl phenyl other	ND	84B pyrene	ND

^{* =} less than a detection limit of 10 ug/L

ND = not detected

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID LILL 22D	ES ID <u>870674</u>			
	Aliqu	ot analyzed /L		
Date Received 4/29-82	Detector Used:	Coulson, EC, Flame, PID		
Date analyzed	Chemist <u>LIB</u>	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	c. c·c·3			
Alpha BHC	0.002			
Beta BHC	C:.OC4			
Delta BHC	Ø-00A			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DDD (TDE)	C.012			
DDE	0.606			
DDT	c.016			
Dieldrin	. C.Ltle			
Endosulfan I	0.005			
Endosulfan II	0.61			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	C.00Z			
Heptachlor epoxide	0.664			
Methoxychlor	0.02			
Toxaphene	C.4C			
2,4,D	0.001			
2,4,5,T	ocei	the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

sample ID McClellanAFB		es 10 <u>820930</u>
Nell # 22 D	Aliqu	not analyzed
Date Received 13 Aug 62	Detector Used:	Coulson, © Flame, PID
Date analyzed 27 Aug 82	Chemist HF	Approved
	Detection Limits (PPD)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0,002	
Beta BRC	0.004	
Delta BHC	0.004	0.0039
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### AROCLOR (PCB) REPORT FORM

	Sample ID McClellan AFB			ES ID	20930	
	و دولا ليه	Aliquot Analyzed //				
	Date Received 13 August 1982 Date Analyzed 27 August 1982	Chemist		EC Coulson, Approved	Flame, PID	
		Detection	n Limits (ppb)	Found	(ppb)	
	Aroclor 1016	-				
	Aroclor 1221					
	Aroclor 1232					
·	Aroclor 1242					
	Aroclor 1248				·	
	Aroclor 1254					
3	Aroclor 1260					

Not detected:

### METALS REPORT FORM

	le ID				
	mw s	<i>* 22</i>	0		
Date	Recei	ved e	29 Az	vil_	1982
_			,		

ES ID 0624
Aliquot analyzed
Method Used

Chemist _____ Approved ____

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<i>&lt;0.005</i>	
Arsenic	p,h,c,d,o		10	40.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>40.01</b>	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1)bial	0.84	
Chromium (+6)	c		-10)		
Cobalt		50	_ 1		
Copper	p,c,d,o	20	1	40.05	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<0.01	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	(0.0005	
Molybdenum	С	500	***	***	
Nickel	р,с,о	40	1	<0.05	
Potassium		10			
Selenium	p,h,c,d		10	<u> </u>	
Silicon		10	***		

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8/27/82

----2-459

	Detection Limit (ppb)						
Code	Flame	Flameless	Detected	Limit			
p,h,c,d,o	50	1	40.05				
	10						
p,c,							
c							
p,c,d,o	5	0.05	0.16				
	p,h,c,d,o p,c,	p,h,c,d,o 50 10 p,c,	p,h,c,d,o 50 1  10  p,c,	p,h,c,d,o 50 1			

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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STATES A

4/29 seripli

# California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT I.D. MW 23 D  VOLATILES  V		:	PRIORITY POLLUTANT DATA	SHEE!	
VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATILES  VOLATICE  VOLATILES  V	CLIENT		Engineering Science	CAL LAB NO.	14556 - 10
acrolein  3V acrylonitrile  4V benzene  6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  16V chloroethane  18V 2-chloroethylvinyl ether  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,2-dichloropropane  33V 1,3-dichloropropane  44V methylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  46V methyl bromide  48V dichlorobromomethane  48V dichlorofluoromethane  50V dichlorodifluoromethane  50V dichlorodifluoromethane  50V chlorodifluoromethane  50V tetrachloroethylene  86V taluene  70  NO = Not detected	CLIENT		mw 230		
acrylonitrile  4y benzene  6v carbon tetrachloride  7y chlorobenzene  10v 1,2-dichloroethane  11v 1,1,1-trichloroethane  13v 1,1-dichloroethane  14v 1,1,2-trichloroethane  15v 1,1,2,-tetrachloroethane  16v chloroethane  19v 2-chloroethylvinyl ether  19v 2-chloroethylvinyl ether  23v chlorofore  23v 1,1-dichloroethylene  30v 1,2-trans-dichloroethylene  32v 1,2-dichloropropane  33v 1,3-dichloropropylene  44v methylene chloride  45v methyl chloride  45v methyl bromide  45v chloroform  48v dichloropromomethane  49v trichlorofluoromethane  50v dichlorodifluoromethane  50v dichlorodifluoromethane  51v chlorodifluoromethane  85v tetrachloroethylene  86v taluene  70 No = Not detected			VOLATILES	ug/L or ug/Kg	
3V   acrylonitrile		_2V	acrolein	NO	
4y benzene AD  6V carbon tetrachloride MAN  7V chlorobenzene MAN  10V 1,2-dichloroethane MAN  11V 1,1,1-trichloroethane MAN  13V 1,1-dichloroethane MAN  14V 1,1,2-trichloroethane MAN  15V 1,1,2,2-tetrachloroethane MAN  16V chloroethane MAN  29V 2-chloroethylvinyl ether MAN  29V 1,1-dichloroethylene MAN  30V 1,2-trans-dichloroethylene MAN  32V 1,2-dichloropropane MAN  33V 1,3-dichloropropane MAN  33V 1,3-dichloropropane MAN  44V methylene chloride MAN  45V methyl chloride MAN  46V methyl bromide MAN  48V dichlorobromomethane MAN  50V dichlorofluoromethane MAN  50V dichlorofluoromethane MAN  51V chlorodifluoromethane MAN  85V tetrachloroethylene MAN  86V toluene MAN  70 ND MAN detected		34	acrylonitrile		
6V carbon tetrachloride  7V chlorobenzene  10V 1,2-dichloroethane  11V 1,1,1-trichloroethane  13V 1,1-dichloroethane  14V 1,1,2-trichloroethane  15V 1,1,2,2-tetrachloroethane  16V chloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropane  44V methylene chloride  45V methyl chloride  46V methyl bromide  46V methyl bromide  49V trichlorofluoromethane  50V dichlorofluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene		4٧	benzene		
10y		6V	carbon tetrachloride		
117   1,1,1-trichloroethane		<u>7v</u>	ch1 orobenzene		•
11		100	1,2-dichloroethane		
139		117	1,1,1-trichloroethane		
14V   1,1,2-trichloroethane		137	1,1-dichloroethane		
15V 1,1,2,2-tetrachloroethane  16V chloroethane  19V 2-chloroethylvinyl ether  10D  23V chloroform  10D  23V chloroform  10D  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  10D  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorofluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87D NO = Not detected		147	1,1,2-trichloroethane		
16V		_15V	1,1,2,2-tetrachloroethane		
19V 2-chloroethylvinyl ether  23V chloroform  29V 1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  86V toluene  86V toluene  87V trichloroethylene  MO  MO  MO  MO  NO = Not detected		<u>16V</u>	chloroethane		
1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  44V methylene chloride  45V methyl chloride  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MO  MO  MO  MO  MO  MO  MO  MO  MO  M		<u> 19V</u>	2-chloroethylvinyl ether		
1,1-dichloroethylene  30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MD  MD  MD  MD Not detected		_23V	chloroform	KO	
30V 1,2-trans-dichloroethylene  32V 1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MO  NO  NO  NO  NO  NO  NO  NO  NO  NO		297	1,1-dichloroethylene		
1,2-dichloropropane  33V 1,3-dichloropropylene  38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MO  NO  NO  NO  NO  NO  NO  NO  NO  NO		_30V	1,2-trans-dichloroethylene	no	
38V ethylbenzene  44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MD MD = Not detected		_32 <b>Y</b>	1,2-dichloropropane		
44V methylene chloride  45V methyl chloride  46V methyl bromide  47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene		_33V	1,3-dichloropropylene	no	
45V methyl chloride  46V methyl bromide  AD  47V bromoform  AB  48V dichlorobromomethane  AD  50V dichlorodifluoromethane  51V chlorodifluoromethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  MD  ND NO NO NO NO NO NO NO NO NO NO NO NO NO		_38V	ethyl benzene	No.	
46V methyl bromide		449	methylene chloride	No ···	
47V bromoform  48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V NO = Not detected		45V	methyl chloride	NO.	·
48V dichlorobromomethane  49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V NO = Not detected		_46V	methyl bromide	ND	
49V trichlorofluoromethane  50V dichlorodifluoromethane  51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87V trichloroethylene  87V NO = Not detected		_47V	bromoform	M	ere in more suite and all
50V dichlorodifluoromethane NO  51V chlorodibromomethane NO  85V tetrachloroethylene NO  86V toluene NO  87V trichloroethylene NO  NO NO NO NO NO detected		_48V	dichlorobromomethane		en en en en en
51V chlorodibromomethane  85V tetrachloroethylene  86V toluene  87V trichloroethylene  87V trichloroethylene  87V mo  NO = Not detected	• .	<u>49V</u>	trichlorofluoromethane		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
85V tetrachloroethylene MO ND NO NO NO NO NO NO NO NO NO NO NO NO NO		50V	dichlorodifluoromethane		e e erez com la centra
86V toluene NO NO NO NO NO NO NO NO NO NO NO NO NO		517	chlorodibromomethane		
87V trichloroethylene ND Not detected		_85V_	tetrachloroethylene	10-	
		86V	toluene	10	An a wall seems against seems a seems a
88V vinyl chloride No		87Y	trichloroethylene	NO - NO	Not detected
		887	vinyl chloride	110	STATE OF STATE OF THE STATE STATE STATE OF THE

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CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15031-6 CLIENT I.D.: #23 D

PP#	VOLATILES	ug/L
27	acrolein	ND
3 <b>V</b>	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	
10V	I,2-dichloroethane	ND
117	1,1,1-trichloroethane	ND
137		ND
147		ND
15V		ND
16V	chloroethane	ND
197	2-chloroethylvinyl ether	ND
23V	chloroform	ND
	l,l-dichloroethylene	ND
<b>30V</b>		ND
32V		ир
33V		ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	
477	bromoform	ND
487	dichlorobromomethane	
497	trichlorofluoromethane	
50V	dichlorodifluoromethane	—— ND
517	chlorodibromomethane	
85V	tetrachloroethylene	
86V	toluene	ND
877		
88V	vinyl chloride	ND
	<ul><li>1 less than loug/L</li><li>ND= not detected</li></ul>	

COMMENTS:

# California Analytical Laboratories, Inc. 4/29 pangle

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

### PRIORITY POLLUTANT DATA SHEET

	والمراجع والمتارات والمراجع والمراجع والمراجع والمستحد والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع			
CLIENT	Engineering Science		CAL LAB NO. 14556	
	<del></del>		CLIENT I.D. MW 23	3D
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ν <b>g/L</b>
21/	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22 <i>F</i>	p-chloro-m-cresol	ND.	428 bis(2-chloroisopropyl)ether	ND
24/	2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	_ <i>Á</i> D_
31/	2,4-dichlorophenol	ND ND	52B bexachlorobutadiene	_\D_
34/	2,4-dimethylphenol	$\mathcal{N}$	538 hexachlorocyclopentadiene	ND
<u>57/</u>	2-nitrophenol	ND	54B isophorone	ND
58/	4 4-nitrophenol	ND ND	55B naphthalene	ND
59/	2,4-dinitrophenol	ND	56B nitrobenzene	ND.
60/	4,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine	ND
64/	A pentachlorophenol	ND ND	62B N-nitrosodiphenylamine	ND
65/	A phenol	ND	63B .N-nitrosodi-n-propylamine	ND
)		-	66B bis(2-ethylhexyl)phthalate	ND
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	ND
18	acenaphthene	ND	68B di-n-butyl phthalate	ND
58	benzidine	MD	69B di-m-octyl phthalate	ND
8B	1,2,4-trichlorobenzene	ΔĎ	708 diethyl phthalate	ND.
98	hexach1orobenzene	MD	71B dimethyl phthalate	$\sqrt{D}$
	B hexachloroethane	MD_	72B benzo(a)anthracene	ND
	B bis(2-chloroethyl)ether	ND.	73B benzo(a)pyrene	W)
	8 2-chloronaphthalene	ΛD	74B 3,4-benzofluoranthene	M
	B 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	$\Delta D$
	B 1,3-dichlorobenzene	ŃD	76B chrysene	$\Delta D$
	8 1,4-dichlorobenzene	AD.	77B acenaphthylene	$\Delta$
	B 3,3'-dichlorobenzidine	ŃD	788 anthracene	ND
_	8 2,4-dinitrotoluene		79B benzo(ghi)perylene	$\Delta D$
	B 2,6-dinitrotoluene	ÁD	80B fluorene	$\Delta D$
- T	B 1,2-diphenylhydrazine		818 phenanthrene	ND
	(as azobenzene)		828 dibenzo(a,h)anthracene	<u>- MD</u>
_	6 Moorantheme	$\mathcal{A}$	83B indeno(1,2,3-cd)pyrene	-W
40	8 4-chlorophenyl phenyl ether	<i>N</i> D	848 pyrene	-M

ANTHONY S WONG. Ph D VICE PRESIDENT

RUBY A. ULRICH SECRETARY/TREASURER

### California Analytical Laboratories, Inc.

SGSS POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (919) 381-5105

8/13

PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT:

ENGINEERING SCIENCE

CAL LAB NO.

15031-6

CLIENT I.D.: # 23

# 23 D √

ACTD COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropy1)ether	— ND
24A 2-chlorophenol		43B bis(2-chloroethoxy)methane	
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	תון תון
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	— ND
57A 2-nitrophenol		54B isophorone	עא –
58A4-mitrophenol	ND	oop naphthalene	4140
59A2,4-dinitrophenol	ND	56B nitrobenzene	
60A4,6-dimitro-o-cresol	ND	56B nitrobenzene 61B N-nitrosodimethylamine	— ND
64A pent achlorophenol	ND	025 N-nitrosodiphenylamine	— ND
65A phenol	D	63B N-nitrosodi-n-propylamine	— ND
UJA P	<del></del>	66B bis(2-ethylhexyl)phthalate	שא
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	עא
1B acenaphthene	ND	68B di-n-butyl phthalate	עא
5B benzidine	ND /	69B di-n-octyl phthalate	עא
5B benzidine 8B 1,2,4-trichlorobenzene	* ✓	70B diethyl phthalate	עא
9B hexachlorobenzene	ND	71B dimethyl phthalate	מא
12Bhexachloroethane	ND	72B benzo(a)anthracene	מא
18Bbis(2-chlorocthyl)ether	ND	73B benzo(a)pyrene	ND
20B2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
25B1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	אס
26B1,3-dichlorobenzene	ND	76B chrysene	ND
27B1,4-dichlorobenzene	ND	//p acenaphthylene	114
28B3,3*-dichlorobenzene		78B anthracene 79B benzo(ghi)perylene	ND
35B2,4-dinit.rot.oluenc		79B benzo(ghi)perylene	ND
36B2,6-dinitrotoluene	ND	80B fluorene	
37Bl.2-diphenylhydrazine		81B phenanthrene	ND
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	_ ND
39Bfluoranthene	ND	83B indeno(1,2,3-cd)pyrene	MD
40B4-chlorophenyl phenyl ether	ND	84B pyrene	ND

^{* =} less than a detection limit of 10 ug/L

ND = not detected

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID HILL 23D	ES ID <u>FIZCEZ</u>			
<del></del>	Aliqu	ot analyzed		
Date Received 4'29-82.	Detector Used:	Coulson, EC, Flame, PID		
Date analyzed	Chemist LIB	Approved		
	Detection Limits (ppb)	Found (ppb)		
Aldrin	C. C:C-3			
Alpha BHC	0.002			
Beta BHC	C:.004			
Delta BHC	0.004			
Gamma BHC (lindane)	0.002			
Chlordane	0.04			
DDD (TDE)	C.012			
DDE	0.606			
DDT	6.016			
Dieldrin	C.006			
Endosulfan I	0.005			
Endosulfan II	0.61			
Endosulfan sulfate	0.03			
Endrin	0.009			
Heptachlor	c.ccz			
Heptachlor epoxide	0.009			
Methoxychlor	0.02			
Toxaphene	C.40			
2,4,D	0.001			
2,4,5,T	0001			
2,4,5 TP (Silvex)	0.002			
DBCP (Dibromochloro propane)				
- International Control				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Well H- COD	ES 10 <u>UW 152</u>				
McCleilan AFB	Aliquot analyzed 12				
Date Received 13 August 82	Detector Used:	Coulson, EC Flame, PID			
Date analyzed 27 Aug 82	Chemist HF	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	0.003				
Alpha BHC	0,002	0.0018			
Beta BHC	0.004				
Delta BHC	0.004				
Gamma BHC (lindane)	0.002	0.039			
Chlordane	0.04				
DOD (TDE)	0.012				
DDE	0.006				
DDT	0.016				
Dieldrin	0.006				
Endosulfan I	0.005				
Endosulfan II	0.01				
Endosulfan sulfate	0.03				
Endrin	0.009				
Heptachlor	0.002				
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	0.40				
2,4,D	0.001				
2,4,5,T	0.001				
2,4,5 TP (Silvex)	0.002				
DBCP (Dibromochloro propane)					

ENGINEERING_SCIENCE - BERKELEY LAROPATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID 820932				
mw #230	Aliquot Analyzed /L				
Date Received /3 August 1982  Date Analyzed 27 August 1982	Detector Used:	EC Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016		· · · · · · · · · · · · · · · · · · ·			
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248		<del></del>			
Aroclor 1254					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Sample ID McClellon AFB		ES ID 0625
MW# 230		Aliquot analyzed
Date Received 29 April 1982		Method Used
Date analyzed	Chemist	Approved

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<0.005	
Arsenic	p,h,c,d,o		10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	40.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 }tota	1 40.05	
Chromium (+6)	G		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<0.05	
Gold		100	1		
Iron	đ	100	1	· · · · · · · · · · · · · · · · · · ·	
Lead	p,h,c,d,o	100	10	40.01	
Lithium		50	***	·	·
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.001	
Molybdenum	c	500			
Nickel	p,c,o	40	1	<0.05	
Potassium		10	***		
Selenium	p,h,c,d		10	<0.01	
Silicon		10			

64/18

8/27/82

2-467

Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
p,h,c,d,o	50	1	<0.0 <b>5</b>	
	10			
p,c,				
c				
p,c,d,o	5	0.05	<i>&lt;0.05</i>	
	p,h,c,d,o  p,c,	Code Flame  p,h,c,d,o 50  10  p,c,	p,h,c,d,o 50 1 10 p,c,	Code Flame Flameless Detected  p,h,c,d,o 50 1

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT	Ε	ngineering Science	CAL LAB NO.	14545-2
CLIENT		MW 24 D		
		VOLATILES	ug/L or ug/Kg	
	_2Y	acrolein	ND	
	_3v	acrylonitrile	ND	
	4٧	benzene	NA	-
	_6V	carbon tetrachloride	M	
	_7٧	chlorobenzene	M	
	100	1,2-dichloroethane	M	
	117	1,1,1-trichloroethane	NO	
	13V	1,1-dichloroethane	MO	
	147	1,1,2-trichloroethane	us.	
	15V	1,1,2,2-tetrachloroethane	M	
	_16V	chloroethane	MO	
	_19V	2-chloroethylvinyl ether	M)	
	_23V	chloroform	no	
	_29V	1,1-dichloroethylene	NO	
	30V	1,2-trans-dichloroethylene	uo	
	_32 <b>y</b>	1,2-dichloropropane	NI)	
	_33V	1,3-dichloropropylene	по	
		ethylbenzene	WO.	
	447	methylene chloride		
	45V	methyl chloride	no	•
	46V	methyl bromide	14)	
	_47Y	bromoform	<u> </u>	
	_48V	dichlorobromomethane	<u>/4)</u>	
	497	trichlorofluoromethane	<u> 10</u>	
	_50V	dichlorodifluoromethane	<u>//</u>	
	517	chlorodibromomethane	no ·	
	85V	tetrachloroethylene	NO	
	86V	toluene	110	entranta e de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compan
	87V	trichloroethylene	no NO	= Not detected
	V88	vinyl chloride	10	·•··

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5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 65824 (818) 361-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT	-	neering Science #24 D	CAL LAB NO
		VOLATILES	ug/L
	2V	acrolein	nd
	3V	acrylonitrile	nd
	4٧	benzene	ncl
	6V	carbon tetrachloride	nal
	77	chlorobenzene	nd
	107	1,2-dichloroethane	nd
	117	1,1,1-trichloroethane	nd
	137	1,1-dichloroethane	nd
	147	1,1,2-trichloroethane	nd
	157	1,1,2,2-tetrachloroethane	nd
	16V	chloroethane	nd
	197	2-chloroethylvinyl ether	nd
	237	chloroform	nd
	29V	1,1-dichloroethylene	nd
	30V	1,2-trans-dichloroethylene	nd
	32V	1,2-dichloropropane	nd
	33V	1,3-dichloropropylene	nd
	<b>38V</b>	ethylbenzene	nd
	447	methylene chloride	nd
	45V	methyl chloride	nd
	46V	methyl bromide	nd
	47٧	bromoform	nd
	48V	dichlorobromomethane	nd
	49V	trichlorofluoromethane	nd
	50V_	dichlorodifluoromethane	nd
	517	chlorodibromomethane	nd
	85V	tetrachloroethylene	nd
	86V	toluene	nd * = Less than 10 ug/L
	877	trichloroethylene	nD = Not detected
	88V	vinyl chloride	nd

1,1,2-trichloro-2,2,1-trifluoroethane nd

# 28 May 1982. California Analytical Laboratories, Inc.

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### PRIORITY POLLUTANT DATA SHEET

IENT Encinearing.	Seance	CAL LAB NO. 14545-2	
		CLIENT I.D. Man -47	<u> </u>
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A 2,4,6-trichlorophe	enol 71d	418 4-bromophenyl phenyl ether	- 191
22A p-chloro-m-cresol	7111	428 bis(2-chloroisopropyl)ether	- /
24A 2-chlorophenol	71d	43B bis(2-chloroethoxy)methane	• . /
31A 2,4-dichloropheno	7-1	52B bexachlorobutadiene	
34A 2,4-dimethylphenol	710	538 hexachlorocyclopentadiene	٠٠,
57A 2-nitrophenol	719	54B isophorone	-11/1
58A 4-nitrophenol	41d	558 naphthalene	71/
59A 2,4-dinitrophenol	नायं	56B nitrobenzene	-7
60A 4,6-dinitro-o-cres	sol Yid	618 N-nitrosodimethylamine	-,,,
64A pentachlorophenol	710	62B N-nitrosodiphenylamine	, ۲
65A phenol	TId_	63B N-nitrosodi-n-propylamine	71.
		66B bis(2-ethylhexyl)phthalate	
BASE/NEUTRAL CO	DMPOUNDS	67B butyl benzyl phthalate	<u>~</u> ,
18_ acenaphthene		688 di-n-butyl phthalate	
5B benzidine	אר	69B di-n-octyl phthalate	7.
88 1,2,4-trichloroben	zene nd	70B diethyl phthalate	
98 hexachlorobenzene	71/	718 dimethyl phthalate	
12B hexachloroethane	nd	72B benzo(a)anthracene	77.12
18B bis(2-chloroethyl)	ther 11d	738 benzo(a)pyrene	
208 2-chloronaphthalene		748 3,4-benzofluoranthene	
258 1,2-dichlorobenzene		758 benzo(k)fluoranthene	
268 1,3-dichlorobenzene		76B chrysene	
278 1,4-dichlorobenzen		778 acenaphthylene	
28B 3,3'-dichlorobenzi		788 anthracene	<del>-</del> -1 .
35B 2,4-dinitrotoluene	TIC	798 benzo(ghi)perylene	
36B 2,6-dinitrotoluene	rid	80B fluorene	
37B 1,2-diphenylhydraz	ine	818 phenanthrene	Ξ;
(aš azobenzene)	711	82B dibenzo(a,h)anthracene	م ب
398 fluoranthene	7111	83B indeno(1,2,3-cd)pyrene	7 - , ;
408 4-chlorophenyl phe	nyl ether 7/1	848 pyrene	

5866 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

8112

### PRIORITY POLLUTANT DATA SHEET

IENT <u>Engineering</u> Science		CAL LAB NO. 15023-1	
<i>y</i>		CLIENT I.D. Well 24D	
ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	vg/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	N
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	_ND
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	_ND
34A 2,4-dimethylphenol	$\overline{}$	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	N
58A 4-nitrophenol	N	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	N	61B N-nitrosodimethylamine	NI
64A pentachlorophenol	N)	62B N-nitrosodiphenylamine	NI
65A phenol	ND	63B .N-nitrosodi-n-propylamine	NI
		66B bis(2-ethylhexyl)phthalate	NÌ
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	ND
1B acenaphthene	<u></u>	68B di-n-butyl phthalate	ND
5B benzidine	ND,	69B di-n-octyl phthalate	N
8B 1,2,4-trichlorobenzene	<del>*</del> /	70B diethyl phthalate	Nì
98 hexachlorobenzene	ΛŊ	71B dimethyl phthalate	ND
12B hexachioroethane	ND	72B benzo(a)anthracene	NI
18B bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene	NI
208 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	NI
258 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene	ND	76B chrysene	NI
27B 1,4-dichlorobenzene	ND	778 acenaphthylene	NI
28B 3,3'-dichlorobenzidine	ND	788 anthracene	ΝÌ
358 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	NI
368 2,6-dinitrotoluene	ND	80B fluorene	ND
37B 1,2-diphenylhydrazine		81B phenanthrene	N
(as azobenzene)	ND	828 dibenzo(a,h)anthracene	NE
3 398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	NE
408 4-chlorophenyl phenyl ether	ND	848 pyrene	NI

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID NIW 240		ES ID SIGHTE					
•	Aliquot analyzed						
Date Received 4/19-62	Detector Used:	Coulson, EC, Flame, PID					
Date analyzed	Chemist <u>UB</u>	Approved					
	Detection Limits (ppb)	Found (ppb)					
Aldrin	C. CC3						
Alpha BHC	0.002						
Beta BHC	C:.CC4						
Delta BHC	E-co4						
Gamma BHC (lindane)	0.007	6.009					
Chlordane	0.04						
DDD (TDE)	C.C12						
DDE	0.006						
DDT	c 016						
Dieldrin	C.126						
Endosulfan I	$c.\infty$ 5						
Endosulfan II	: 0.61						
Endosulfan sulfate	0.03						
Endrin	C. CC9						
Heptachlor	c.ccz						
Heptachlor epoxide	0.009						
Methoxychlor	0.62						
Toxaphene	C.40						
2,4,D	0.001						
2,4,5,T	ocei	0.60					
2,4,5 TP (Silvex)	0.002						
DBCP (Dibromochloro propane)							
	والأعراق والمستوي والمناول والمستوين والمستوين والمستوين والمستوين والمستوين والمستوين والمستوين والمستوين والمستوين						

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### PESTICIDE/HERBICIDE REPORT FORM

Semple ID McClellan AFB		ES ID 820934	
Well # 24 D	Aliqu	c: analyzed //	
Date Received BANGUST 1982	Detector Used:	Coulson, EC Flame, PID	
Date Received BAugust 1982  Date analyzed 27 Aug 82	ChemistHF	Approved	
	Detection Limits (PPD)	Found (ppb)	
Aldrin	0.003		
Alpha BHC	0.002		
Beta BHC	0.004		
Delta BHC	0.004		
Gamma BHC (lindane)	0.002		
Chlordane	0.04		3
DDD (TDE)	0.012		0
DOE	0.006		\$.
DDT	0.016		denlisiable
Dieldrin	0.006		i.
Endosulfan I	0.005		66
Endosulfan II	0.01		B
Endosulfan sulfate	0.03		£
Endrin	0.009		•
Heptachlor	0.002		
Heptachlor epoxide	0.004		
Methoxychlor	0.02		
Toxaphene	0.40		
2,4,D	0.001		
2,4,5,T	0.001	0.005	
2,4,5 TP (Silvex)	0.002		
DBCP (Dibromochloro propane)			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Ckellan AFB	ES ID 820934				
mu #240	Aliquot Analyzed /L				
Date Received 13 August 1982 Date Analyzed 27 August 1982	Detector Used:	EC. Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242 _					
Aroclor 1248		·			
Aroclor 1254					
Aroclor 1260					

Not detected.

Sample ID //	c Ciellan AFB	METALS	REPORT FORM	ES ID	0627
nw #				Aliquot analyzed	
	d 29 April 1982			Method Used	
Date analyzed		Chemist		Approved	
Date analyze	d	Chemis	·	wbbloasd	
Blement	Code		Limit (ppb) Flameless		Limit
		Detection	Limit (ppb)	Detected	Limit

p,h,c,d,o		10	<0.05
h,c,d	1,000	5	
p,c,			
p,h,c,d,o	5	0.1	<0.01
	50	***	
p,h,c,d,o	20	1 } to	al 20.05
c	-	روب	
	50	1	
p,c,d,o	20	1	<0.05
	100	· 1	
d	100	1	
p,h,c,d,o	100	10	<0.01
	50		
	1		
đ	10	0.5	
p,h,c,d,o		0.5	0.0308
c	500		
p,c,o	40	1	< 0.05
	10		
p,h,c,d		10	<0.01
	h,c,d  p,c,  p,h,c,d,o  c  p,c,d,o  d  p,h,c,d,o  c  p,h,c,d,o	h,c,d 1,000  p,c,  p,h,c,d,o 5  50  p,h,c,d,o 20  c  50  p,c,d,o 20  100  d 100  p,h,c,d,o 100  50  1  d 10  p,h,c,d,o  c 500  p,c,o 40	h,c,d 1,000 5  p,c,  p,h,c,d,o 5 0.1  50  p,h,c,d,o 20 1  g,c,d,o 20 1  p,c,d,o 20 1  100 1  d 100 1  p,h,c,d,o 100 10  50  d 10 0.5  p,h,c,d,o 0.5  c 500  p,c,o 40 1

10

64/18

Silicon

8/27/82

2-475

Element	Code	Detection Limit (ppb) Flame Flameless		Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thallium	р,с,				
Tin					•
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.14	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5886 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 381-5105

CLIENT I.D.

PRIORITY POLLUTANT DATA SHEET 'X

Science CAL LAB NO. 14772-9

	VOLATILES	ug/L
_2V	acrolein	_nd
3٧	acrylonitrile	nd
4٧	benzene	nd
6V	carbon tetrachloride	nd
78	chlorobenzene	nd
107	1,2-dichloroethane	nd.
117	1,1,1-trichloroethane	nd
137	1,1-dichloroethane	nd.
147	1,1,2-trichloroethane	nd
15V	1,1,2,2-tetrachloroethane	nd-
167	chloroethane	nd.
197	2-chloroethylvinyl ether	nd
23V	chloroform	nd.
29V	1,1-dichloroethylene	nd.
30V	1,2-trans-dichloroethylene	nd.
32V	1,2-dichloropropane	ond,
33V	1,3-dichloropropylene	nd
38V	ethylbenzene	nd.
447	methylene chloride	nd
45V	methyl chloride	Md.
46V	methyl bromide	nd
47V	bromoform	nd
48V	dichlorobromomethane	nd
49V	trichlorofluoromethane	nd
50V	dichlorodifluoromethane	Md
517	chlorodibromomethane	nd
85V	tetrachloroethylene	nd
86V	toluene	nd
877	trichloroethylene	nd.
88V	vinyl chloride	nd

1,1,2-trichloro-2,2,1-trifluoroethane

* = Less than 10 ug/ ND = Not detected

5885 POWER INN ROAD SACRAMENTO, CALIFORNIA 86824 (916) 381-6105

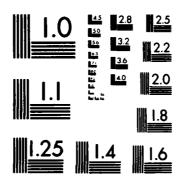
### PRIORITY POLLUTANT DATA SHEET

CLIENT	Enai	ineering Science	_ CAL LAB	NO. <u>15023-4</u>
CLIENT	I.D.	25D	_	
			- 41	
		VOLATILES	ug/L	
	_2V	acrolein	<u>nd</u>	,
	3٧	acrylonitrile	nd	·
	4٧	benzene	<u>nd</u>	
	_6V	carbon tetrachloride	<u>nd</u>	
	<u>7V</u>	chlorobenzene	nd	
	104_	1,2-dichloroethane	nd_	
	117	1,1,1-trichloroethane	nd	
	<u> 13V</u>	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	157	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	•
	197	2-chloroethylvinyl ether	nd	•
·	23V	chloroform	nd	
,	297	1,1-dichloroethylene	nd	- ····
,	30V	1,2-trans-dichloroethylene	*/	•
	32V	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	<b>,</b> ,
,	38V	ethylbenzene	nd	Maria de la compania
,	447	methylene chloride	nd	· -
	45V	methyl chloride	nd	· •· • • • • • • • • • • • • • • • • •
,	46V	methyl bromide	nd	·
•	477	bromoform	nd	
,	48V	dichlorobromomethane	nd	<del></del>
•	497	trichlorofluoromethane	nd	
•	50V	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	
	85V	tetrachloroethylene	nd	
	86V	toluene	nd	/* = Less than 10 ug/L
,	877	trichloroethylene		ND = Not detected
	887	vinylachloride	nd	Harris Francis (a) (A annual a tentra ( a annual a a annual a annual a a annual a a annual a a annual a a annual
		1,1,2 trichloro-2,2,1-trifluoroethane	nol	tion in the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second con
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401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-8802

ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS  ACID COMPOUNDS	PRIORITY	POLLUTANT	DATA SHEET Joh	
ACID COMPOUNDS  21A 2,4,6-trichlorophenol  22A p-chlorop-a-cresol  22A p-chlorophenol  23A 2,6-trichlorophenol  24B bis(2-chlorospopyl)ether  24A 2-chlorophenol  34A 2,4-dichlorophenol  34A 2,4-dichlorophenol  34A 2,4-dimethylphenol  35B hexachlorocyclopentadiene  36B isophorone  37B introbenzene  37B introbenzene  37B introbenzene  37B introbenzene  37B indepthylphenol  3	LIENT Engineering Science		CAL LAB NO. 147.	
21A 2.4.6-trichlorophenol  22A p-chloro-a-cresol  22A 2-chlorophenol  22A 2-chlorophenol  22A 2-chlorophenol  22A 2-chlorophenol  22A 2-chlorophenol  22B bis(2-chlorophenol  22B bis(2-chlorophenol  22B bis(2-chlorophenol  22B bexachlorophenol  22B isophorone  22B isophorone  22B introbenzene  22B introbenzene  22B N-nitrosodimethylamine  22B N-nitrosodimethylamine  22B N-nitrosodimethylamine  22B N-nitrosodi-n-propylamine  22B N-nitrosodi-n-propylamine  22B bexachlorophenol  22B N-nitrosodi-n-propylamine  22B bexachlorophenol  22B introbenzene  22B intro			CLIENT I.D. NW2	<i>5D</i>
22A p-chlorophenol  24A 2-chlorophenol  31A 2,4-dichlorophenol  31A 2,4-dichlorophenol  34A 2,4-dichlorophenol  35B bexachlorocyclopentadiene  36B isophorone  37D apphthalene  37D a	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	<b>ν9/L</b>
244 2-chlorophenol	21A 2,4,6-trichlorophenol	nd	418 4-bromophenyl phenyl ether	nd
31A 2.4-dichlorophenol 34A 2.4-dimithylphenol 34A 2.4-dimithylphenol 34A 2.4-dimithylphenol 34A 2.4-dimithylphenol 34B isophorone 34B isophorone 34B isophorone 35B naphthalene 37D 36B 4-nitrophenol 36B nitrophenol 37B nitr	22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	nd
34A 2,4-dimethylphenol md 53B hexachlorocyclopentadiene md 57A 2-nitrophenol md 54B isophorone md 55B 1-2-dichlorobenzene md 55B naphthalene md 55B naphthalene md 55B naphthalene md 55B naphthalene md 56B nitrobenzene md 56B n-nitrosodimethylmine md 56B n-nitrosodimethylmine md 56B n-nitrosodimethylmine md 56B phenol md 56B n-nitrosodimethylmine md 56B phenol md 56B n-nitrosodimethylmine md 56B phenol md 56B phenol md 56B phenol md 56B phenol md 56B phenol md 56B phenol md 56B phenol phenol phenol md 56B phenol phenol phenol md 56B phenol phenol phenol md 56B phenol phenol phenol phenol phenol md 56B phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol phenol p	24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane	nd
57A 2-nitrophenol	31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	nd
58A 4-nitrophenol	34A 2,4-dimethylphenol	<u>nd</u>	53B hexachlorocyclopentadiene	nda
59A 2,4-dinitrophenol	57A 2-n1trophenol	nd	54B isophorone	nd
60A 4,6-dinitro-o-cresol 64A pentachlorophenol 65A phenol 65A phenol 65A phenol 65B N-nitrosodimethylamine 65B N-nitrosodimethylamine 65B N-nitrosodimethylamine 65B N-nitrosodi-n-propylamine 66B bis(2-ethylhexyl)phthalate 66B bis(2-ethylhexyl)phthalate 66B bis(2-ethylhexyl)phthalate 66B bis(2-ethylhexyl)phthalate 66B di-n-butyl phthalate 66B di-n-butyl phthalate 66B di-n-octyl phthalate 67B diethyl phthalate 67B benzo(a) anthracene 67B benzo(a) pyrene 67B benzo(b) fluoranthene 67B benzo(k) fluoranthene 67B diethorophenzene 67B diethorophenzene 67B diethorophenzene 67B diethorophenzene 67B acenaphthylene 67B acenaphthylene 67B acenaphthylene 67B acenaphthylene 67B diethorophenzene 67B acenaphthylene 67B diethorophenzene 67B diethorophenzene 67B diethorophenzene 67B acenaphthylene 67B diethorophenzene	58A 4-n1trophenol	nd	55B naph thalene	nd
64A pentachlorophenol  Md 628 N-nitrosodi-n-propylemine  Md 638 N-nitrosodi-n-propylemine  Md 638 N-nitrosodi-n-propylemine  Md 668 bis(2-ethylhexyl)phthelate  Md 668 bis(2-ethylhexyl)phthelate  Md 668 bis(2-ethylhexyl)phthelate  Md 668 di-n-butyl phthalate  Md 668 di-n-butyl phthalate  Md 668 di-n-butyl phthalate  Md 668 di-n-octyl phthalate  Md 668 di-n-octyl phthalate  Md 708 diethyl phthalate  Md 708 diethyl phthalate  Md 718 dimethyl phthalate  Md 718 dimethyl phthalate  Md 728 benzo(a)anthracene  Md 738 benzo(a)pyrene  Md 748 3,4-benzofluoranthene  Md 748 3,4-benzofluoranthene  Md 758 benzo(k)fluoranthene  Md 768 chrysene  Md 808 fluorene	59A 2,4-dinitrophenol	_nd	56B nitrobenzene	nd
BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/NEUTRAL COMPOUNDS  BASE/N	60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
65A phenol  BASE/NEUTRAL COMPOUNDS  66B bis(2-ethylhexyl)phthalate  Md  66B di-n-butyl phthalate  Md  76B diethyl phthalate  Md  76B benzo(a)anthracene  Md  76B benzo(a)pyrene  Md  76B chrysene  Md	64A pentachlorophenol	_nd	628 N-nitrosodiphenylamine	nd
BASE/NEUTRAL COMPOUNDS  678 butyl benzyl phthelate  Md  688 di-n-butyl phthelate  Md  698 di-n-octyl phthelate  Md  698 di-n-octyl phthelate  Md  88 1.2.4-trichlorobenzene  Md  708 diethyl phthelate  Md  708 diethyl phthelate  Md  718 dimethyl phthelate  Md  728 benzo(a) anthracene  Md  738 benzo(a) pyrene  Md  748 3,4-benzofluoranthene  Md  758 benzo(k) fluoranthene  Md  768 chrysene  Md  778 acenaphthylene  Md  788 anthracene	65A phenol	,	63B .N-nitrosodi-n-propylemine	nd
Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md   Seconspit there   Md			66B bis(2-ethylhexyl)phthalate	nd
58 benzidine  Maria Senzidine  Maria Senzidina Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  Maria Senzidini Senzidine  M	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	nd
58 benzidine  88 1,2,4-trichlorobenzene  98 hexachlorobenzene  128 hexachloroethane  128 bis(2-chloroethane  128 bis(2-chloroethyl)ether  129 2-chloroethyl)ether  129 2-chloroethyl)ether  120 2-chlorobenzene  120 2-chlorobenzene  121 benzo(a)anthracene  122 benzo(a)pyrene  123 benzo(a)pyrene  124 3,4-benzofluoranthene  125 1,2-dichlorobenzene  126 1,3-dichlorobenzene  127 1,4-dichlorobenzene  128 3,3'-dichlorobenzene  129 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrotaluene  120 2,4-dinitrot	'8 acenaphthene	nd	688 di-n-butyl phthalate	nd
128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   hexachlorobenzene   Md   128   henzo(a) anthracene   Md   128   henzo(a) pyrene   Md   128   henzo(b) fluoranthene   Md   128   henzo(b) fluoranthene   Md   128   henzo(b) fluoranthene   Md   128   henzo(c) fluoranthene   Md   128			698 di-n-octyl phthalate	and.
98hexachlorobenzeneNA718dimethyl phthalateNA128hexachloroethaneNA728benzo(a)anthraceneMA188bis(2-chloroethyl)etherNA738benzo(a)pyreneMA2082-chloroethyletherNA7483,4-benzofluorantheneMA2581,2-dichloroenzeneNA758benzo(k)fluorantheneMA2681,3-dichloroenzeneNA768chryseneMA2781,4-dichloroenzeneNA788anthraceneNA2883,3'-dichloroenzidineNA798benzo(ghi)peryleneNA3582,4-dinitrotolueneNA808fluoreneNA3682,6-dinitrotolueneNA808fluoreneNA3781,2-diphenylhydrazine (as azobenzene)NA828dibenzo(a,h)anthraceneNA398fluorantheneNA838indeno(1,2,3-cd)pyreneNA			70B diethyl phthalate	nd
128 hexachlerosthame			71B dimethyl phthalate	nd
188 bis(2-chloroethyl)ether  208 2-chloroethyl)ether  208 2-chloroethyl)ether  208 2-chloroethyl)ether  258 1,2-dichlorobenzene  268 1,3-dichlorobenzene  278 1,4-dichlorobenzene  288 3,3'-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine  (as azobenzene)  278 1,2-diphenylhydrazine  (as azobenzene)  278 benzo(a)pyrene			72B benzo(a)anthracene	nd
208 2-chloropenzene  258 1,2-dichloropenzene  268 1,3-dichloropenzene  278 1,4-dichloropenzene  278 1,4-dichloropenzene  288 3,3'-dichloropenzene  288 3,3'-dichloropenzene  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine  (as azopenzene)  388 indeno(1,2,3-cd)pyrene  288 3,3'-dichloropenzidine  298 4,4-dinitrotoluene  298 618 2,6-dinitrotoluene  398 618 388 388 388 388 388 388 388 388 388 3			738 benzo(a)pyrene	nd
25B 1,2-dichlorobenzene  26B 1,3-dichlorobenzene  27B 1,4-dichlorobenzene  27B 1,4-dichlorobenzene  28B 3,3*-dichlorobenzidine  35B 2,4-dinitrotoluene  36B 2,6-dinitrotoluene  37B benzo(k) fluoranthene  Md  76B chrysene  77B acenaphthylene  78B anthracene  78B anthracene  79B benzo(ghi) perylene			748 3,4-benzofluoranthene	·nd
268 1,3-dichlorobenzene  278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  398 fluoranthene  788 anthracene  788 benzo(ghi)perylene  788 benzo(ghi)perylene  788 benzo(ghi)perylene  788 dibenzo(a,h)anthracene  788 anthracene  788 benzo(ghi)perylene			758 benzo(k) fluoranthene "	· nd
278 1,4-dichlorobenzene  288 3,3'-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  378 1,2-diphenylhydrazine  388 dibenzo(a,h)anthracene  388 fluoranthene  388 indeno(1,2,3-cd)pyrene  388 valuene  388 indeno(1,2,3-cd)pyrene		,	76B chrysene	Mat
288 3,3°-dichlorobenzidine  358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  398 fluoranthene  788 anthracene  798 benzo(ghi)perylene  798 benzo(ghi)perylen			778 acenaphthylene	nd
358 2,4-dinitrotoluene  368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  398 fluoranthene  Nd  808 fluorene  Nd  818 phenanthrene  Nd  828 dibenzo(a,h)anthracene  Nd  838 indeno(1,2,3-cd)pyrene  Nd		,	788 anthracene	nd
368 2,6-dinitrotoluene  378 1,2-diphenylhydrazine (as azobenzene)  398 fluoranthene  Nd  808 fluorene  818 phenanthrene  Nd  828 dibenzo(a,h)anthracene  Nd  838 indeno(1,2,3-cd)pyrene  Nd			798 benzo(ghi)perylene	
378 1-2-diphenylhydrazine (as azobenzene)  398 fluoranthene  818 phenanthrene  828 dibenzo(a,h)anthracene  Nd  838 indeno(1,2,3-cd)pyrene  Nd				
(as azobenzene)  Md. 828 dibenzo(a,h)anthracene  Nd. 838 indeno(1,2,3-cd)pyrene  Nd. 838 indeno(1,2,3-cd)pyrene		-14		
398 fluoranthene Nd 838 indeno(1,2,3-cd)pyrene Nd		nd-		
				<i>T</i>
	,	·	A management of the Street Street Street	nd

INSTALLATION RESTORATION PROGRAM PHASE II CONFIRMATION MCCLELLAN AFB CALIFORNIA VOLUME 2(U) ENGINEERING-SCIENCE INC ARCADIA CALIF JUN 83 F/G 17/2 AD-A133 006 6/8 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

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### PRIORITY POLLUTANT DATA SHEET

ENT <u>Engineering</u> Science		CAL LAB NO. 15023-4
ACID COMPOUNDS		CLIENT I.D. Well 25D  BASE/NEUTRAL COMPOUNDS 19
	ug/L	
21A 2,4,6-trichlorophenol	NĎ	41B 4-bromophenyl phenyl ether
22A p-chloro-m-cresol	<u>ND</u>	42B bis(2-chloroisopropy1)ether
24A 2-chlorophenol	ND.	43B bis(2-chloroethoxy)methane
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene
57A 2-nitrophenol	ND	54B isophorone /
58A 4-nitrophenol	ND	55B naphthalene
59A 2,4-dinitrophenol	ND	568 nitrobenzene
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine
65A pheno1	ND	63B N-nitrosodi-n-propylamine
		66B bis(2-ethylhexyl)phthalate
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate
18 acenaphthene	N	68B di-n-butyl phthalate /
5B benzidine	ND,	698 di-n-octyl phthalate
8B 1,2,4-trichlorobenzene	*/	70B diethyl phthalate
98 hexachlorobenzene	ND	718 dimethyl phthalate
12B hexachloroethane	ND	72B benzo(a)anthracene
18B bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene
208 2-chloronaphthalene	ND	748 3,4-benzofluoranthene
258 1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene
26B 1,3-dichlorobenzene	ND	76B chrysene /
27B 1,4-dichlorobenzene	ND	778 acenaphthylene
28B 3,3'-dichlorobenzidine	ND	788 anthracene
358 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene
36B 2,6-dinitrotoluene	ND	80B fluorene
37B 1,2-diphenylhydrazine		81B phenanthrene
(as azobenzene)	ND.	828 dibenzo(a,h)anthracene
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene - A
408 4-chlorophenyl phenyl ether	ND	848 pyrene

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Mu 25D		ES ID 820790
6/15-82	Aliqu	not analyzed
Date Received 6/24-8.2	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	D-004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	6.012	
DDE	0.666-	
DDT	c 516	
Dieldrin	S.126	
Endosulfan I	$c\alpha s$	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	44.5
Endrin	0.009	
Heptachlor	c.ooz	
Heptachlor epoxide	0.004	
Methoxychlor	6.62	
Toxaphene	C.40	
2,4,D	0.001	C12
2,4,5,T	0001	0.025
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### PESTICIDE/HERBICIDE REFORT FORM

sample ID McClellan AFB		es 10 820936
Well # 25D	Aliqu	ot analyzed //
Date Received 13 AWLIST 1962	Detector Used:	Coulson, EC Flame, PID
Date Received 13 August 1962 Date analyzed 27 Aug 82	Chemist HF	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.902	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindame)	0.002	
Chlordane	0.04	
DOD (TDE)	0.012	
DOE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	<.009
Heptachlor	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	0.004
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID <u>820936</u>		
mw \$50		uot Analyzed //	
Date Received 13 August 1982 Date Analyzed 27 August 1982	Detector Used Chemist #F	EC Coulson, Flame, PID Approved	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248	·		
Aroclor 1254			
Aroclor 1260			

Not detected

#### METALS REPORT FORM

		METATO	KEPUKI PUKM		
Sample ID McC	ellan AFB			ES ID	823790
MW #a80  Date Received 24 June 1992				Aliquot analyzed	
				Method Used	·
Date analyzed	<del></del>	Chem1:	st	Approved	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	40.005	
Arsenic	p,h,c,d,o		10	20.05	
Berium.	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	L0.01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 7	tal a.o.	
Chromium (+6)	C.		10)		
Cobalt		50	1		•
Copper	p,c,d,o	20	1	<0.05	
Gold		100	1		
Iron	đ	100	1		•
Lead	p,h,c,d,o	100	10	4001	
Lithium		50			
Magnesium		1	***		
Manganese	d	10	0.5		•
Mercury	p,h,c,d,o	_	0.5	<0.0005	and a second second second second
Molybdenum	c	500		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
Nickel	p,c,o	40	1	40.05	
Potassium		10	****		

10

10

20.01

64/18

Selenium

p,h,c,d

8/27/82

2-484

Element	Code	Detection	r Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium	•••	10			
Thellium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.024	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT		Engineering Science	CAL LAB NO	<u>-3</u>
CLIENT	1.0.	MW 26 D		
		VOLATILES	wall or walka	
	<u>2V</u>	acrolein	NO.	
	34	acrylonitrile	<u> </u>	
,	47	benzene	ND	
	67	carbon tetrachloride		
	77	chlorobenzene	ND	
	104	1,2-dichloroethane		
	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	10	
	147	1,1,2-trichloroethane		
	<u> 15V</u>	1,1,2,2-tetrachloroethane		
	164	chloroethane		
	190	2-chloroethylvinyl ether	<u> </u>	
	234	chloroform	no	
	29V	1,1-dichloroethylene	N)	
	30 <b>V</b>	1,2-trans-dichloroethylene	no	
	32 <b>y</b>	1,2-dichloropropane	no	
	337	1,3-dichloropropylene	NO	
	<u> 38V</u>	ethy l benzene	<u>up</u>	
	447	methylene chloride	<u> </u>	
•	<u>45V</u>	methyl chloride	<i>n</i> p	
	<u>46V</u>	methyl bromide	NO.	
,	_47Y	branoform	no-	
•	<u>48V</u>	dichlorobromomethane	NO	
	49V	trichlorofluoromethane	<u> </u>	
,	<u>50V</u>	dichlorodifluoromethane	ND	
	517	chlorodibromomethane	ND	
	85V	tetrachloroethylene	100	
	867	toluene	no-	
	877	trichloroethylene	wo NO = Not de	tected
	889	vinyl chloride	no	
			· · · · · · · · · · · · · · · · · · ·	

CLIENT: ENGINEERING SCIENCE

CAL LAB NO. 15015-4 CLIENT I.D.: 26D

PP#	VOLATILES	ug/L
2₹	acrolein	ND
37	acroleinacrylonitrile	ND
47	benzene carbon tetrachloride	ND
6V	carbon tetrachloride	ND
77	chlorobenzene	ND
107	chlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	ND
117	l,l,l-trichloroethane	ND
13V	1.1dichioroethane	ИT
14V	1,1,2-trichloroethane	ND
15 <b>V</b>	1,1,2,2-tetrachloroethane	ND
16V	chloroethane 2-chloroethylvinyl ether	ND
19V	2-cnioroetnyivinyi etner	ND
23V	chloroform	ND
29V	chloroform 1,1-dichloroethylene 1,2-trans-dichloroethylene	ND
<b>30V</b>	1,2-trans-dichioroethylene_	ND
<b>32</b> V	1,2-dichloropropene	— ND
33V	1,3-dichloropropylene	ND
<b>38V</b>	ethylbenzene	— ИД
44V	methylene chloride	ND
457	methyl chloride	MD
46V	methyl bromide	ND
47V	bromoformdichlorobromomethane	ND
48V	trichlorofluoromethane	ND
49V	dichlorodifluoromethane	ND
507	chlorodibromomethane	ND
51 V	tetrachloroethylene	ND
85V	toluene	ND
86V	trichloroethylene	ND
877	visul chloride	ND
88V	vinyl chloride	UND
	ND= not detected	

COMMENTS:

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

### PRIORITY POLLUTANT DATA SHEET

LIENT Engineering Suisnee	·	CAL LAB NO. 74545-3	
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	V.9	418 4-bromophenyl phenyl ether	<b>(</b> _1.
22A p-chloro-m-cresol	んじ	42B bis(2-chloroisopropyl)ether	
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	1
31A 2,4-dichlorophenol	んり	52B bexachlorobutadiene	
34A 2,4-dimethylphenol	10	538 hexachlorocyclopentadiene	人方
57A 2-nitrophenol	ND	54B isophorone	人
58A 4-nitrophenol	LD	55B naphthalene	A. A
59A 2,4-dinitrophenol	NO	56B nitrobenzene	LA
60A 4,6-dinitro-o-cresol	んひ	61B N-nitrosodimethylamine	٧٠٧
64A pentachlorophenol	<i>人(</i> )	62B N-nitrosodiphenylamine	大心
65A phenol	NB	63B , N-nitrosodi-n-propylamine	· A. £
		66B bis(2-ethylhexyl)phthalate	LL
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	LL
18 acenaphthene	LD	68B di-n-butyl phthalate	<u> </u>
5B benzidine	101)	698 di-n-octyl phthalate	j. i.
88 1,2,4-trichlorobenzene	人心	70B diethyl phthalate	1:
98 hexachlorobenzene	<i>L</i> D	71B dimethyl phthalate	1.
12B hexachloroethane	ND	72B benzo(a)anthracene	
188 bis(2-chloroethyl)ether	10	738 benzo(a)pyrene	<u> </u>
208 2-chloronaphthalene	LD	748 3,4-benzofluoranthene	1.1.
258 1,2-dichlorobenzene	10	758 benzo(k)fluoranthene	1.1
268 1,3-dichlorobenzene	<i>LD</i>	768 chrysene	1.
278 1,4-dichlorobenzene	10.5 L.S	778 acenaphthylene	/
28B 3,3'-dichlorobenzidine	<u> </u>	788 anthracene	
358 2,4-dinitrotoluene	10 D	798 benzo(ghi)perylene	,
36B 2,6-dinitrotoluene	人心	80B fluorene	1.7
37B 1.2-diphenylhydrazine	<del></del>	818 phemanthrene	
(83 azobenzene)	L1)	82B dibenzo(a,h)anthracene	<u> </u>
398 fluoranthene	$\mathcal{L}_{L}$	838 indeno(1,2,3-cd)pyrene	
408 4-chlorophenyl phenyl ether	LO	848 pyrene	<u></u>

· ":- "

SEES POWER HIM ROAD SACRAMENTO, CALIFORNIA 85824 (919) 381-6105

8111

#### PRIORITY POLLUTANT DATA SUMMARY SHEET

CLIENT: ENGINEERING SCIENCE

CAL LAB NO.

15015-4

CLIENT I.D.: WELL

WELL 26D

ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND TO
22A p-chloro-m-cresol	ND	744 NISE/-CHINTOISONTONVIJETNET	
24A 2-chlorophenol	ND	TJU hiell-chiornathovulmathana	
31A 2,4-dichlorophenol	ND	749 herachlorobutadiene	
34A 2,4-dimethylphenol	ND	nexacutorocactopeuragiene	
57A 2-nitrophenol	ND	³⁴⁰ isophorone	110
58A 4-nitrophenol	ND		
58A 4-mitrophenol59A 2,4-dimitrophenol	ND	56B nitrobenzene	- ND
60A 4,6-dinitro-o-cresol	ND	56B nitrobenzene 61B N-nitrosodimethylamine	- ND
64A pentachlorophenol	ND /		
65A phenoI	* 4	V2V K=017704661-0-6700V196104	
BASE/NEUTRAL COMPOUNDS		U/U hiify! haagy! nhfng!afa	
1B acenaphthene	ND		
5B benzidine	ND /	U/U MISDSOCTVI DNIDALALE	
8B 1,2,4-trichlorobenzene	* 4	/UD AIBTOUL BOTGELETS	
9B hexachlorobenzene	MD		
12B hexachloroethane	ND .	' - Denzo( a /anthracene	
18B bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	- ND
20B 2-chloronaphthalene	ND	73B benzo(a)pyrene 74B 3,4-benzofluoranthene	- אס
25B1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	1775
26B1,3-dichlorobenzene	ND	76B chrysene	
2781,4-dichlorobenzene	ND	/ D acenaphthylene	- ND
28B3,3'-dichlorobenzene	ND	^{/8B} anthracene	112
35B2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	
36B2,6-dinitrotoluene	ND	80B fluorene	
37B1,2-diphenylhydrazine		81B phenenthrene	<b>■ 1075</b>
(as azobenzene)	ND	82B dibenzo(a,h)anthracene	
39Bfluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
4084-chlorophenyl phenyl ether	ND	84B pyrene	-

^{# =} less than a detection limit of 10 ug/L

ND = not detected

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID AILL' ZGD	HILL ZED ES ID E206	
	Aliqu	not analyzed
Date Received 4/29-82	Detector Used:	Coulson, EC, Flame, PII
Date analyzed	Chemist	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	C.C:0-3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	<i>₹.004</i>	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.666	
DDT	c 516	
Dieldrin	£.006	
Endosulfan I	c.cc5	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	c.ccz	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	
2,4,5,T	0001	0.004
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		
	والمناف والمناف والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمن	

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### PESTICIDE/HERBICIDE REFORT FORM

Sample ID McCkilain AFB		es 10 <u>820938</u>
Will # 26 D	Aliq	ruot analyzed 12.
Date Received BANNST 1982	Detector Used:	Coulson, EC Flame, PID
Date analyzed 30 Aug 82	Chemist HF	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	0.003	<u></u>
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	0.004	<u> </u>
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	K
Endosulfan II	0.01	7
Endosulfan sulfate	0.03	
Endrin	0.009	( )
Heptachlor	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	- 0.036
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

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#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB	es id <u>82093</u> 9		
mw # 260	Aliqu	not Analyzed /L	
Date Received 13 August 1982 Date Analyzed 30 August 1982		EC, Coulson, Flame, PID Approved	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260			

Not detected.

		METALS RE	PORT FORM		
Sample ID Mc					820619
mw #2				Aliquot analyzed	
Date analyzed	29 Apri! 1982	Chemist		Method UsedApproved	
		Depart of T	4945 (seb)	<del></del>	
Element	Code	Detection L Flame	Flameless	Detected	Limit
Muminum		500	50		
Antimony	p,c	500	10	40.005	
Arsenic	p,h,c,d,o	-	10	<0.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<01	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1766	al 60.05	
Chromium (+6)	c		(٥١		
Cobelt		50	1		
Copper	p,c,d,o	20	1	<0.0 <b>5</b>	
Gold Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	LO.OL	
Lithium		50			****
Magnesium		1	~~~		- 17
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	somple not analyzed	for this metal
Molybdenum	c	500			and the second second second
Nickel	p,c,o	40	1	40.05	was a reserve
Potassium		10			

10

10

₹0.01

64/18

Selenium

Silicon

p,h,c,d

8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thallium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0-05	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

#### PRIORITY POLLUTANT DATA SHEET

CLIENT		Engineening Science	CAL LAB N	0. <u>14545-5</u>
CLIENT	1.0	mw 27D	<del></del>	
		VOLATILES	ug/L or ug/	Kg
	<u>2</u> V	acrolein	<u>N</u> D	
	_3V	acrylonitrile	w	
	4٧	benzene	NO	
	6V	carbon tetrachloride	no	÷ ·
	7٧	chlorobenzene	NO	
	100	1,2-dichloroethane	no	***
	117	1,1,1-trichloroethane		, the section of the
•	130	1,1-dichloroethane	No-	
	147	1,1,2-trichloroethane	MO-	and the second second second
	150	1,1,2,2-tetrachloroethane	NO:	e de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la c
	167	chloroethane	NO	
	197	2-chloroethylvinyl ether	NO	
	23V	chloroform	NO	,
		1,1-dichloroethylene	no	
	30V	1,2-trans-dichloroethylene	NO	
	327	1,2-dichloropropane	n	• .
	33V	1,3-dichloropropylene	no	
		ethy1benzene	MO	
	444	methylene chloride	10	
	45V	methyl chloride	MO	e control e control e control e
	_46V	methyl bromide	NO	e e e e e e e e e e e e e e e e e e e
	47V	bramoform	NO.	نست و معددت
	48V	dichlorobromomethane	MO	**************************************
	49V	trichlorofluoromethane	M)	
	50 <b>Y</b>	dichlorodifluoromethane	M	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	517	chlorodibromomethane		
	85V	tetrachloroethylene	n	and a contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract
	86V	toluene	ND	er er selves vider is sælfræressader norsk i sing i syrikkrikking om er er sig
	877	trichloroethylene	10:	ND = Not detected
	88V	vinyl chloride	10	

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SOS FOWER INN ROAD SACRAMENTO, CALIFORNIA 85624 (818) 381-6105 .

CLIENT	Enain	neering Science	CAL LAB !	10. <u>15023-6</u>
CLIENT		#270		
		WOA ATTI CC		
		VOLATILES	ug/L	
	_2V	acrolein	nd	
	_3V	acrylonitrile	<u>nd</u>	
	4٧	benzene	nd	رياد المعطود ويوان الله الله المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم
	_6٧	carbon tetrachloride	nd	
	_7٧	chlorobenzene	nd	
	_10V	1,2-dichloroethane	nd	
	117	1,1,1-trichloroethane	nd	
	137	1,1-dichloroethane	nd	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	147	1,1,2-trichloroethane	nd	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
	<u> 15V</u>	1,1,2,2-tetrachloroethane	nd	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	237	chloroform	nd	
	297	1,1-dichloroethylene	nd	• • •
	30V	1,2-trans-dichloroethylene	nd	•
	327	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	•
	38V	ethylbenzene	nd	
	447	methylene chloride	nd	• •
	45V	methyl chloride	nd	
	46V	methyl bromide	nd	
	47V	bromoform	nd	
	487	dichlorobromomethane	nd	
	49V	trichlorofluoromethane	nd	· na manana
	50V	dichlorodifluoromethane	na	
	517	chlorodibromomethane	nd	· · · · · · · · · · · · · · · ·
	85V	tetrachloroethylene	nd	er er en en en en en en en en
	86V	toluene	nd	* = Less than 10 ug/L
	877	trichloroethylene		ND = Not detected
	887	vinyl chloride	nd	un en la companya de la companya de la companya de la companya de la companya de la companya de la companya de
		1,1,2-trichloro-2,2,1-trifluoroethane		

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

ENT Engineering Section		CAL LAB NO. 24575757	
ACID COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	۵'۸	418 4-bromophenyl phenyl ether	_4.3
22A p-chloro-m-cresol	ND	428 bis(2-chloroisopropyl)ether	
24A 2-chlorophenol	んり	43B bis(2-chloroethoxy)methane	入人の
31A 2,4-dichlorophenol	LD.	52B bexachlorobutadiene	ĹΛ
34A 2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	<u>(</u>
57A 2-nitrophenol	ND	548 isophorone	一大り
58A 4-ni trophenol	ND	558 naph tha lene	Kr
59A 2,4-dinitrophenol	ND	56B nitrobenzene	F-13
60A 4,6-dinitro-o-cresol	N/)	61B N-nitrosodimethylamine	- (
64A pentachlorophenol	LD	62B N-nitrosodiphenylamine	
65A pheno1	ND	63B N-nitrosodi-n-propylamine	1. 15
		66B bis(2-ethylhexyl)phthalate	<i>U</i> ?.
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	( N
1B acenaphthene	ND	68B di-n-butyl phthalate	んか
58 benzidine	NU	698 di-n-octyl phthalate	<u> 1-1</u>
88 1,2,4-trichlorobenzene	ND	708 diethyl phthalate	L!
98 hexachlorobenzene	N/D	718 dimethyl phthalate	<i>7.</i> ∱
128 hexachloroethane	ND	72B benzo(a)anthracene	<u> Al</u>
188 bis(2-chloroethyl)ether	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	73B benzo(a)pyrene	κ. <i>Γ</i> .
20B 2-chloronaphthalene	<i>L</i> /2	74B 3,4-benzofluoranthene	1
258 1,2-dichlorobenzene	20	75B benzo(k)fluoranthene	NL
268 1,3-dichlorobenzene	N.D	76B chrysene	1.1
27B 1,4-dichlorobenzene	LO	77B acenaphthylene	人人
288 3,3'-dichlorobenzidine	ND	788 anthracene	<u> </u>
358 2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	<u> </u>
36B 2,6-dinitrotoluene	NU	80B fluorene	1.4
37B 1,2-diphenylhydrazine		818 phenanthrene	ن ۸۰
(as azobenzene)	ND_	82B dibenzo(a,h)anthracene	<i>-}\±:</i> :
398 fluoranthene	<u> </u>	83B indeno(1,2,3-cd)pyrene-	سرب <i>ولل</i> د

#### 5865 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 391-5105

## 0/12

CTIE	NT <u>Engineering Science</u>		CAL LAB NO. <u>15023-</u> CLIENT I.D. Well 27	D/
	ACID COMPOUNDS	μ <b>g/</b> L		rg/L
•	21A 2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	nd
	22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	nd
•	24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane	nd
	31A 2,4-dichlorophenol	nd	52B bexachlorobutadiene	not
	34A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd
•	57A 2-nitrophenol	nd	548 isophorone	nd
	58A 4-nitrophenol	nd	55B naphthalene	nd
	59A 2,4-dinitrophenol	nd	568 nitrobenzene	net
	60A 4,6-dinitro-o-cresol	nd	618 N-nitrosodimethylamine	nd
	64A pentach Torophenol	nd	628 N-nitrosodiphenylamine	nd
i	65A pheno1	nd	638 N-nitrosodi-n-propylamine	nd
			66B bis(2-ethylhexyl)phthalate	nd
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	nd
	1B acenaphthene	nd	688 di-n-butyl phthalate	nd
:	58 benzidine	nd,	69B di-n-octyl phthalate	nd
•	8B 1,2,4-trichlorobenzene	*	708 diethyl phthalate	nd
	9B hexach1orobenzene	nd	71B dimethyl phthalate	nd
	12B hexach1oroethane	nd	72B benzo(a)anthracene	nd
<b>.</b>	188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	nd
	208 2-chloronaphthalene	nd	74B 3,4-benzofluoranthene	nd
,	25B 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene	nd.
	268 1,3-dichlorobenzene	nd	768 chrysene	nd
	27B 1.4-dichlorobenzene	nd	77B acenaphthylene	nd
· · · · ·	288 3,3'-dichlorobenzidine	nd	788 anthracene	nd
,	35B 2,4-dinitrotoluene	nd	79B benzo(ghi)perylene	red.
	36B 2,6-dinitrotoluene	nd	80B fluorene	nd
	37B 1,2-diphenylhydrazine		818 phenanthrene	nd
	(ás azobenzene)	-nd	828 dibenzo(a,h)anthracene	nd
	398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	nd
	408 4-chlorophenyl phenyl ether	nd	848 pyrene	nd

#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID Nu 270		es id Fichec			
<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	Aliquot analyzed 12.				
Date Received 4 20-87	Detector Used:	Coulson, EC, Flame, PID			
Date analyzed	ChemistLIB	Approved			
	Detection Limits (ppb)	Found (ppb)			
Aldrin	c. c:c3				
Alpha BHC	0.002				
Beta BHC	C:.CC4				
Delta BHC	C-CC4				
Gamma BHC (lindane)	0.002	c. 12			
Chlordane	0.04				
DDD (TDE)	C.012				
DDE	0.006				
DDT	coll				
Dieldrin	C 006				
Endosulfan I	0.005				
Endosulfan II	0.61				
Endosulfan sulfate	0.03				
Endrin	0.009				
Heptachlor	C.00Z				
Heptachlor epoxide	0.004				
Methoxychlor	0.02				
Toxaphene	C.40				
2,4,D	0.001	C. E4			
2,4,5,T	0001				
2,4,5 TP (Silvex)	C.Cc.2				
DBCP (Dibromochloro propane)					

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Mª Clellain AFB		ES ID 820940
Well # 27D	Aliqu	ot analyzed
Date Received 13 August 1982	Detector Used:	Coulson EC, Flame, PID
Date analyzed 31 Aug 82	Chemist HF	Approved
	Detection Limits(ppb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	9.902	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DOT	0.016	
Dieldrin	0.006_	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
<b>Heptachlor</b>	0.002	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0.001	0.003
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB		ES ID 820940
mw #270	<b>Aliq</b> i	not Analyzed //
Date Received 13 August 1982	Detector Used: Chemist <u>HF</u>	EC. Coulson, Flame, PID Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

Not detected

#### METALS REPORT FORM

Sample ID McClellan AFB

MW # 270

Date Received 29 April 1982

Date analyzed

ES ID <u>0630</u>
Aliquot analyzed _____

Chemist _____ Approved _____

		Detection	Limit (ppb)	_	
Element	Code	Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	0.005	
Arsenic	p,h,c,d,o		10	40.05	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	0.023	
Calcium		50	***		
Chromium (+3)	p,h,c,d,o	20	1 }btal	<0.05	
Chromium (+6)	C		10)		e .
Cobalt		50	1		
Copper	p,c,d,o	20	1	0.13	<del></del>
Gold		100	1	,	
Iron	đ	100	1		<u> </u>
Lead	p,h,c,d,o	100	10	<b>40.01</b>	
Lithium		50	***		
Magnesium		1			
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.0005	
Molybdenum	С	500	***		
Nickel	p,c,o	40	1	<0.05	<del></del>
Potassium		10	<b>40</b> 0		<del></del>
Selenium	p,h,c,d		10	<0.01	
Silicon		10			·

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8/27/82

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	∠0.0 <b>5</b>	<del></del>
Sodium		10			
Thallium	p,c,				
Tin				<del></del>	
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.32	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5005 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 361-5105 😅

CLIENT <u>Engineesing</u> Science.	CAL LAB NO. 14772-8
CLIENT I.D. MW28D	_ CAL LAD NO

	VOLATILES	ug/L
_2V	acrolein	nd
3V	acrylonitrile	nd
47	benzene	nd
6V	carbon tetrachloride	nd.
77	chlorobenzene	nd
100	1,2-dichloroethane	nd
117	1,1,1-trichloroethane	nd
137	1,1-dichloroethane	nd
147	1,1,2-trichloroethane	nd
15V	1,1,2,2-tetrachloroethane	nd
167	chloroethane	nd
190	2-chloroethylvinyl ether	nd
23V	chloroform	nd
29V	1,1-dichloroethylene	nd
30V	1,2-trans-dichloroethylene	nd
32V	1,2-dichloropropane	nd
33V	1,3-dichloropropylene	nd.
38V	ethylbenzene	nd
.44٧	methylene chloride	nd.
45V	methyl chloride	nd
46V	methyl bromide	nd
477	bromoform	nd
48V	dichlorobromomethane	nd
49V	trichlorofluoromethane	nd
50V	dichlorodifluoromethane	nd
517	chlorodibromomethane	nd
85V	tetrachloroethylene	nd
86V	toluene	nd
874	trichlorcethylene	and-
887	vinyl chloride	nd
	1,1,2-trichloro-2,2,1-trifluoroethane	nd

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S895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-5105 .

	,	ineering Science	_ CAL LAB NO.	15052-16
CLIENT	1.0	Well 28D	_	
	:	VOLATILES	ug/L	
	27	acrolein	nd	
	3٧	acrylonitrile	nd	
	4٧	benzene	nd	
	6V	carbon tetrachloride	nd	
	7٧	chlorobenzene	nd	
•	100	1,2-dichloroethane	nd	
	119	1,1,1-trichloroethane	nd	
	13V	1,1-dichloroethane	nd	
	147	1,1,2-trichloroethane	nd	
	157	1,1,2,2-tetrachloroethane	nd	
	16V	chloroethane	nd	
	190	2-chloroethylvinyl ether	nd	
	23V	chloroform	nd/	
	29V	1,1-dichloroethylene	<del>*</del>	
	30V	1,2-trans-dichloroethylene	nd	
	32V	1,2-dichloropropane	nd	
	33V	1,3-dichloropropylene	nd	
	387	ethy1benzene	nd	
	447	methylene chloride	nd	
	45V	methyl chloride	nd	
	46V	methyl bromide	na	
	478	bromoform	nd	
	48V	dichlorobromomethane	nd	
	49V	trichlorofluoromethane	nd	
	50V	dichlorodifluoromethane	nd	
	517	chlorodibromomethane	nd	
	85V	tetrachloroethylene	nd	<del></del> .
	86V	toluene	nd, *	= Less than 10 ug/L
	877	trichloroethylene		= Not detected
	88V	vinyl chloride	nd	-
		1,1,2-trichloro-2,2,1-trifluoroethane	_nd	-

401 NORTH 16th STREET SACRAMENTO, CALIFORNIA 95/114 (816) 444-8662

PRIORITY	POLLUTANT	DATA	SHEET	رلفا
		501171		TOK-

PRIORITY	PULLUIANI	DATA SHEET OF	
ENT Engineering Science		CAL LAB NO. 147.72	
		CLIENT I.D. MW2	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A 2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	nd
22A p-chloro-a-cresol	nd	42B bis(2-chloroisopropyl)ether	nd
24A 2-chlorophenol	nd	438 bis(2-chloroethoxy)methane	nd
31A 2,4-dichlorophenol	nd	528 bexachlorobutadiene	nd
34A 2,4-dimethylphenol	nd.	53B hexachlorocyclopentadiene	nd
57A 2-nitrophenol	nd	54B isophorone	nd
58A 4-n1trophenol	<u>nd</u>	55B naphthalene	nd
59A 2,4-dinitrophenol	nd	56B nitrobenzene	na
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
64A pentach loropheno l	nd	62B N-nitrosodiphenylamine	na
65A phenol	nd	63B .N-nitrosodi-n-propylamine	na
		66B bis(2-ethylhexyl)phthalate	na
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthelete	na
18 acenaphthene	-nd	688 di-n-bytyl anthalass	na
58 benzidine	nd	698 di-n-ectyl phthalate	110
88 1,2,4-trichlorobenzene	nd	708 diethyl phthalate	na
98 hexachlorobenzene	nd	718 dimethyl phthalate	Na
128 hexachloroethene	nd	72B benzo(a)anthracene	na
188 bis(2-chloreethyl)ether	nd	738 benzo(a)pyrene	119
208 2-chieronaphthalene	nd	748 3,4-benzofluoranthene	na
258 1,2-dichlorobenzene	nd	758 benzo(k)fluoranthene	No
268 1,3-dichlorobenzene	nd	76B chrysene	no
278 1,4-dichlorobenzene	nd	77B acenaphthylene	M
288 3,3'-dichlorobenzidine	nd	788 anthracene	·n
358 2,4-dimitrotoluene	na	798 benzo(ghi)perylene	n
368 2,6-dinitrotoluene	nd	808 fluorene	2
378 1,2-diphenylhydrazine		818 phenanthrene	n
(as azobenzene)	-nd	828 dibenzo(a,h)anthracene	- 21
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	- 20
40B 4-chlorophenyl phenyl ether	nd	848 pyrene	The

5865 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (818) 381-5105

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LIENT <u>Engineering</u> Science		CAL LAB NO. 15052	
	- //	CLIENT 1.D. 11ell 28	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	µg/L
21A 2,4,6-trichlorophenol	_nd_ 4	18 4-bromophenyl phenyl ether	na
22A p-chloro-m-cresol	nd 4	2B bis(2-chloroisopropy1)ether	nd
24A 2-chlorophenol	nac 4	3B bis(2-chloroethoxy)methane	na
31A 2,4-dichlorophenol	nd 5	2B bexachlorobutadiene	na
34A 2,4-dimethylphenol	,	3B hexachlorocyclopentadiene	na
57A 2-nitrophenol	nd 5	4B isophorone	na
58A 4-nitrophenol	nd 5	5B naphthalene	na
59A 2,4-dinitrophenol	nd 5	68 nitrobenzene	na
60A 4,6-dinitro-o-cresol	nd e	11B N-nitrosodimethylamine	na
64A pentachlorophenol	nd 6	2B N-nitrosodiphenylamine	na
65A phenol	nd e	38 N-nitrosodi-n-propylamine	no
		66B bis(2-ethylhexyl)phthalate	20
BASE/NEUTRAL COMPOUNDS	9	578 butyl benzyl phthalate	no
1B acenaphthene	nd	88 di-n-butyl phthalate	- no
5B benzidine	nd!	i9B di-n-octyl phthalate	70
8B 1,2,4-trichlorobenzene	nd:	70B diethyl phthalate	na
98 hexachlorobenzene	nd	71B dimethyl phthalate	no
12B hexachloroethane	nd:	72B benzo(a)anthracene	no
188 bis(2-chloroethyl)ether	nd:	73B benzo(a)pyrene	na
20B 2-chloronaphthalene	nd	748 3,4-benzofluoranthene	na
258 1,2-dichlorobenzene		75B benzo(k)fluoranthene	na
26B 1,3-dichlorobenzene	nd	76B chrysene	na
278 1,4-dichlorobenzene	nd.	778 acenaphthylene	-n
288 3,3'-dichlorobenzidine	nd	788 anthracene	· na
35B 2,4-dinitrotoluene	nd.	79B benzo(ghi)perylene	·na
368 2,6-dinitrotoluene	nd	BOB fluorene	no
37B 1,2-diphenylhydrazine		81B phenanthrene	no
(as azobenzene)	nd	82B dibenzo(a,h)anthracene	na
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	na
408 4-chlorophenyl phenyl ether	nd	848 pyrene	no

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID		ES ID <u>EZCECZ</u>
61.6-82	Aliqu	ot analyzed 11.
Date Received 6/201-87	Detector Used:	Coulson, EC, Flame, PIC
Date analyzed	Chemist <u>L1B</u>	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. Cc3	C.145
Alpha BHC	0.002	
Beta BHC	0.004	C . CZ.7
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DDT	c 016	
Dieldrin	C.CtL	
Endosulfan I	0.005	_
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.CCZ	
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,5	0.001	C. Z44:
2, 4, 5, T	0001	c.c22
2,4,5 TF (Silvex)	0.002	
DBCP (Dibromochloro propane)		
	<del></del>	

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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#### PESTICIDE/HERBICIDE REPORT FORM

Date analyzed 26 Aug 82 Chemist HF Approved	Plame, PII
	und (ppb)
	und (ppb)
Detection Limits (PPb) Po	
Aldrin 0.003	
Alpha BHC 0.902	
Beta BHC 0.004	
Delta BHC 0.004	
Gamma BHC (lindane) 0.002	
Chlordane 0.04	
DDD (TDE) 0.012	
DDE 0.006 <.004	•
DDT 0.016	
Dieldrin 0.006	
Endosulfan I 0.005	
Endosulfan II 0.01	
Endosulfan sulfate 0.03	
Endrin 0.009	
Heptachlor 0.002	
Heptachlor epoxide 0.004 <.004	,
Methoxychlor 0.02	
Toxaphene 0.40	
2,4,D 0.001	
2,4,5,T 0.001 <.00	)
2,4,5 TP (Silvex) 0.002	
DBCP (Dibrosochloro propane)	•

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID McCkilon AFB	ES ID 820957			
- MW #280	Aliquot Analyzed /L			
Date Received /8 August 1982  Date Analyzed 26 August 1982	Detector Used: Chemist <u>HF</u>	EC, Coulson, Flame, PID Approved		
	Detection Limits (ppb)	Found (ppb)		
Aroclor 1016				
Aroclor 1221				
Aroclor 1232				
Aroclor 1242				
Aroclor 1248				
Aroclor 1254				
Aroclor 1260				

Not detected.

#### METALS REPORT FORM

Sample ID Mc	Yellan AFB			ES ID	820803
MW #28	0		A	liquot analyzed	
Date Received	24 June 1982		M	ethod Used	
Date analyzed		Chemis	st	Approved	
Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<b>40.005</b>	
Arsenic	p,h,c,d,o	400	10	<0.0 <b>5</b>	
Barium	h,c,d	1,000	5		
Beryllium	р,с,				
Cadmium	p,h,c,d,o	5	0.1	<0.01	
Calcium		50	400		
Chromium (+3)	p,h,c,d,o	20	1 }tota	1 <0.05	
Chromium (+6)	C		70)		<u>.</u>
Cobelt		50	1		
Copper	p,c,d,o	20	1	LO.05	<del></del>
Gold		100	1	<del> </del>	
Iron	d	100	1		
Lesd	p,h,c,d,o	100	10	<b>&lt;0.01</b>	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.0039	
Molybdenum	С	500			
Nickel	p,c,o	40	1	<0.05	
Potassium	<del> </del>	10			
Selenium	p,h,c,d		10	<b>40.01</b>	. <u> </u>

10

Silicon

Detection Limit (ppb)					7 dand n
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	L0.05	
Sodium	<del>-</del>	10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.14	

codes: p - EPA priority pollutant
h - EPA hazardous waste
c - Ca. Dept. Health Services hazardous waste
d - EPA drinking water
o - Ocean waters of California

-4/29 sample

## California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT	1.0.	Engineering Science Mw 29D	CAL LAB NO
		VOLATILES	ug/L or ug/Kg
	27	acrolein	NO
•	3٧	acrylonitrile	
•	4٧	benzene	
•	6V	carbon tetrachloride	
•	7٧	chlorobenzene	NO
·	104	1,2-dichloroethane	
	117	1,1,1-trichloroethane	no
•	13V	1,1-dichloroethane	
	147	1,1,2-trichloroethane	M1)
	157	1,1,2,2-tetrachloroethane	
	167	chloroethane	NO
	197	2-chloroethylvinyl ether	NO
	23V	chloroform	MO_
	297	1,1-dichloroethylene	NO
	30V	1,2-trans-dichloroethylene	MD
	32 <b>Y</b>	1,2-dichloropropane	NO
	33V	1,3-dichloropropylene	
	38V	ethylbenzene	
	447	methylene chloride	M
	45V	methyl chloride	NO.
	46V	methyl bromide	NO
	47V	branoform	
	487	dichlorobromome thane	<i>ND</i>
	49V	trichlorofluoromethane	<u> </u>
	50V	dichlorodifluoromethane	
	517	chlorodibromomethane	NO
	85V	tetrachloroethylene	NO
	86V	toluene	NO.
	877	trichloroethylene	uo ND = Not detected
	88V	vinyl chloride	NO

#### SOS POWER INN ROAD SACRAMENTO, CALIFORNIA 85824 (818) 381-6105 -

CLIENT	Eng	invering Science	CAL LAB NO.	15052-15
CLIENT		Well 29D		
		VOLATILES	ug/L	
	:	<del></del>		
	_2V	acrolein	nd.	
	34	acrylonitrile	<u>nd</u>	
	47	benzene	<u>nd</u>	
	<u>6V</u>	carbon tetrachloride	nd	
	<u>_7V</u>	chlorobenzene	nd	
	<u>10V</u>	1,2-dichloroethane	<u> </u>	
	117	1,1,1-trichloroethane	nd	·
	137	1,1-dichloroethane	nd.	
	147	1,1,2-trichloroethane	nd	<u> </u>
	157	1,1,2,2-tetrachloroethane	nd	
	167	chloroethane	nd	
	197	2-chloroethylvinyl ether	nd	
	237	chloroform	nd	
	<u> 29V</u>	1,1-dichloroethylene	<del>X</del> _/	
	_30V	1,2-trans-dichloroethylene	nd	
	_32V	1,2-dichloropropane	nd	• •
	_33V	1,3-dichloropropylene	nd	• • • • • •
	_38V	ethylbenzene	nd	· • •
	447	methylene chloride	nd	
	45V	methyl chloride	nd	· •
	46V	methyl bromide	nd	
	47V	bromoform	nd	the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract
	48V	dichlorobromomethane	nd	······································
	49V	trichlorofluoromethane	nd	William And Grant Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con
	50V	dichlorodifluoromethane	nd	to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
	517	chlorodibromomethane	nd	man answer and a second of the second
	857	tetrachloroethylene	nd	entered committees on the property of the
	86V	toluene	nd *	= Less than 10 ug/L
	874	trichloroethylene		= Not detected
	887	vinyl chloride	nd	ti ad Prida usprav sampa ( ) ( um) ado ( ) ( ) ( ) ( m) ( ) ( min) ( ) ( )
		1.1.2-trichloro-2.2.1-trifluoroethane		a to select account the appropriate of contribution of the first consequence from the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the

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		201 140 110 111 111 111	-0
CLIENT <u>Engineering</u> Science		CAL LAB NO. 14556 CLIENT I.D. MW 29	<u>フ</u>
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol		41B 4-bromophenyl phenyl ether	ŊĎ
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	_Ŵ
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ΔĎ
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ΛĎ
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	N)
57A 2-nitrophenol	ND	54B isophorone	ŃD
58A 4-nitrophenol	ND	55B naph thalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	·ND	62B N-nitrosodiphenylamine	ND
65A pheno1	ND	63B .N-nitrosodi-n-propylamine	ND ND
		66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	(V)
18 acenaphthene	MD	68B di-n-butyl phthalate	ND
5B benzidine	ND	69B di-n-octyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
98 hexachlorobenzene	ND	71B dimethyl phthalate	ND
128 hexachloroethane	ND	72B benzo(a)anthracene	ND
188 bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene	ND
20B 2-chloronaphthalene		748 3,4-benzofluoranthene	M
258 1,2-dichlorobenzene		75B benzo(k)fluoranthene	ND
26B 1,3-dichlorobenzene	ND	76B chrysene	ND
27B 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
288 3,3'-dichlorobenzidine	ND	788 anthracene	M
35B 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND.
36B 2,6-dinitrotoluene	ΛD	80B fluorene	M
37B 1,2-diphenylhydrazine	•	818 phenanthrene	ND.
(as azobenzene)	-VD	828 dibenzo(a,h)anthracene	ND
398 fluoranthene		83B indeno(1,2,3-cd)pyrene	ND
408 4-chlorophenyl phenyl ether	M)	848 pyrene	M

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5865 POWER INN ROAD BACRAMENTO, CALIFORNIA 95824 (918) 381-5105

LIENT <u>Engineering</u> Science		CAL LAB NO. 15052	-/5-
		CLIENT I.D. Well 2	9D'
ACID COMPOUNDS	μ <b>g/L</b>	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	nd	41B 4-bromophenyl phenyl ether	nd
22A p-chloro-m-cresol	nd	42B bis(2-chloroisopropyl)ether	nl
24A 2-chlorophenol	nd	43B bis(2-chloroethoxy)methane	nd
31A 2,4-dichlorophenol	net	52B bexachlorobutadiene	rd
34A 2,4-dimethylphenol	nd	53B hexachlorocyclopentadiene	nd.
57A 2-nitrophenol	nd	54B isophorone	nd
58A 4-nitrophenol	nd	55B naphthalene	nd
59A 2,4-dinitrophenol	nd	56B nitrobenzene	23
60A 4,6-dinitro-o-cresol	nd	61B N-nitrosodimethylamine	nd
64A pentachlorophenol	nd	62B N-nitrosodiphenylamine	200
65A pheno1	nd	63B N-nitrosodi-n-propylamine	rich
		66B bis(2-ethylhexyl)phthalate	9
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	nd
1B_ acenaphthene	nd	688 di-n-butyl phthalate	nd
5B benzidine	nd	698 di-n-octyl phthalate	nel
8B 1,2,4-trichlorobenzene	nd	70B diethyl phthalate	nd
98 hexachlorobenzene	nd	71B dimethyl phthalate	nd
12B hexachloroethane	rd	72B benzo(a)anthracene	nd
188 bis(2-chloroethyl)ether	nd	73B benzo(a)pyrene	nd
20B 2-chloronaphthalene	na	74B 3,4-benzofluoranthene	nd
25B 1,2-dichlorobenzene	nd	75B benzo(k)fluoranthene	nd
268 1,3-dichlorobenzene	nd	76B chrysene	- nd
27B 1,4-dichlorobenzene	nd	77B acenaphthylene	nd
28B 3,3'-dichlorobenzidine	nd	788 anthracene	nd
35B 2,4-dinitrotoluene	nd	79B benzo(ghi)perylene	nd
36B 2,6-dinitrotoluene	nd	80B fluorene	-nd
37B1,2-diphenylhydrazine	,	818 phenanthrene	nd
(as azobenzene)	nd	82B dibenzo(a,h)anthracene	nd
398 fluoranthene	nd	83B indeno(1,2,3-cd)pyrene	nd
408 4-chlorophenyl phenyl ether	ne	84B pyrene	nd

#### PESTICIDE/HERBICIDE REFORT FORM

	Aliqu	not analyzed	
Date Received 4/29-82		Coulson, EC, Flame, PID	
Date analyzed	Chemist <u>UB</u>	Approved	
	Detection Limits (ppb)	Found (ppb)	
Aldrin	c. c [.] c- <del>3</del>		
lpha BHC	0.002		
eta BHC	0.004		
belta BHC	Ö-004		
Samma BHC (lindane)	0.002	0.82	
hlordane	. 0.04		
DD (TDE)	C.012		
DE	0.006		
DT	c 016		•
ieldrin	C.006		
ndosulfan I	0.005		
ndosulfan II	0.01		
Indosulfan sulfate	0.03		
ndrin	0.009		
leptachlor	c.ccZ		
Septachlor epoxide	0.004		
lethoxychlor	0.02		-
oxaphene	C.40		• • • •
1,4,D	0.001		
,4,5,T	0001		
2,4,5 TP (Silvex)	0.00.2		
BCP (Dibromochloro propane)			

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#### PESTICIDE/HERBICIDE REPORT FORM

sample ID 119Clellan AFB		es id <u>\$20951</u>
Nell # 290	Aliqu	ot analyzed 12
Date Received IB August 1982	Detector Used:	Coulson, E Flame, PID
Date analyzed ZL Aug 82	Chemist <u>HF</u>	Approved
	Detection Limits (PPb)	Found (ppb)
Aldrin	0.003	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	0.004	
Gamma BHC (lindane)	0.002	0.061 0.104
Chlordane	0.04	
DOD (TDE)	0.012	
DDE	0.006	
DOT	0.016	
Dieldrin	0.006	
Endosulfan I	0.005	
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	0.002	
Heptachlor epoxide	0.004	·
Methoxychlor	0.02	
Toxaphene	0.40	
2,4,D	0.001	
2,4,5,T	0,001	-
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

no identifiable herbicide peaks

#### AROCLOR (PCB) REPORT FORM

Sample ID McClellan AFB		es id <u>820959</u>
MW #290	Aliqu	not Analyzed /L
Date Received 18 August 1982 Date Analyzed 26 August 1982	Detector Used: Chemist HF	Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

Not detected.

#### METALS REPORT FORM

ES ID 0626_ Sample ID McClellan AFB Aliquot analyzed MW #290 Method Used Date Received 29 April 1982 Approved ____ Chemist Date analyzed _____ Detection Limit (ppb) Flameless Detected Limit Code Flame Element 500 50 Aluminum 500 10 Antimony p,c 40.005 10 p,h,c,d,o Arsenic <0.05 5 h,c,d 1,000 Barium Beryllium p,c, 5 0.1 Cadmium p,h,c,d,o 40.01 50 Calcium 1 Itotal 20.05 Chromium (+3) p,h,c,d,o 20 10 Chromium (+6) c 1 50 Cobalt 20 1 Copper p,c,d,o <0.05 1 100 Gold 1 100 ď Iron 100 10 Lead p,h,c,d,o 40.01 50 Lithium 1 Magnesium 0.5 đ 10 Manganese 0.5 Mercury p,h,c,d,o 40.0026 500 Molybdenum C 40 1 Nickel p,c,0 <0.05 10 Potassium 10 Selenium p,h,c,d LO.01 10 Silicon

8/27/82

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Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	40.05	
Sodium		10			
Thallium	p,c,				-
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	0.07	

64/18

8/27/82

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ADDITIONAL ANALYSES STAGE I MONITORING WELLS

ANALYSIS SULTS

Neclellan AFB

4.5

DATE RECEIVED: A cinq 375
DATE REQUESTED:
REQUESTED BY:
PROJECT NUMBER: 0702

ANALYSIS PERFORMED

				4	1							
AMALYSIS	ALPHATIC 640	ALPHUTE CYANIDE	CRESTLC ACID									Z
UNITS	Mon	712	The		46.6	5 8	pests	see	ina	wide	als	heeks
820924-50	8.1	20.7	)		20D							
820926 ph	20% 18.00 Sec.	20.7	١		209							
82092 <b>8</b> ,1		<i>S</i> 0.	)		21D					·		
8209271		70.7	\		215							
820930vs		20.7	١		220							
820931 wn		20.7	_		225							
8209523		70.7	١		23Σ							
820933n"		70.7	١		235							
820934 1AV		70'7	1		24D							
\$ \$209361th		207	1		245							
3,0820938		70.7	)		Z5D							
4.820937		.15	)		253							
" 120938		20'7	57		76D	•						
15 R20939		70.	5>		597							
0"R20940		20.7	1		21D							
A R20941		70.7	)		275							
ANALYST	DB	× 1										
****	¥	, ,										

2-533

AMALYS (S ... SSULTS

naclellan a FB

A Section

ami 10 2.

ANALYSIS PERFORMED

DATE RECEIVED:
DATE REQUESTED:
REQUESTED BY:
PROJECT NUMBER:

ANALYSIS	CN	K	Hebs 5	pests	See	ind	wide	2	sheeks	pca's	
UNITS	Me   1		LINGLE #				:			add	
820 949 W	700'	1	165								
9 50 W	70.7		160								
d21 m	70'7		175							p.	
452-14 \$ 6.02	70.7*		<b>GLI</b>							*>	
953 W	70'7		185							240	
954.80	70.7		180							2	
955/4	70.7		195								
0495b			abi								
95 MB	70'7		280								
958x	56.		245								
959 190	70'7		290								
46000	70'7		305								
96139	70.7		315			·					
4621	70'	}					i		,		1
	1.1.1										
AMALYST	NA									#	

A Average of angitty accurance

2-224

9-292

ANALYTICAL DATA
STAGE II MONITORING WELLS

APPENDIX M

589% Power Inn Road Sacramento, California 95824 (916)-381-5105

9/29

CLIENT	Engine	ering-Science	CAL LAS NO.	15245-1
CLIENT	[.0	Well #33S		
		VOLATILES	ug/L or ug/Kg	
	24	acrolein	ND	
_	34	acrylonitrile	ND	
_	4٧	benzene	ND ND	
_	6V_	carbon tetrachloride	ND	
_	7٧	chlorobenzene	ND -	
•	104	1,2-dichloroethane	ND	
_	117	1,1,1-trichloroethane	ND	
_	137	1,1-dichloroethane	ND	
_	144	1,1,2-trichloroethane	ND	
•	154	1,1,2,2-tetrachloroethane	ND	
_	16V	chloroethane	ND .	
_	197	2-chloroethylvinyl ether	ND	
-	23 <b>V</b>	chloroform	5	
-	29 <b>V</b>	1,1-dichloroethylene	ND	
•	30 <b>V</b>	1,2-trans-dichloroethylene	30	
•	32 <b>Y</b>	1,2-dichloropropane	ND	•
•	33V	1,3-dichlaropropylene	ND ND	
-	387	ethy i benzene	ND	
•	447	methylene chloride	ND	
-	45V	methyl chloride	ND	
-	46V	methyl bromide	ND	
-	47Y	bramaform	ND	
•	48V	dichiorobromomethane	ND	
	49V	trichlorofluoromethane	ND	
•	50 <b>V</b>	dichlorodifluoromethane	ND	
•	517	chlorodibromomethane	ND	
•	85V	tetrachloroethylene	ND	
	86V	toluene	ND	
	87 <b>Y</b>	trichloroethylene	2000 NC	= Not detected
	_88V_	vinyl chloride	ND	

SASS POWER INN ROAD IAMENTO, CALIFORNIA 95824

SAC

9/29

#### PRIORITY POLLUTANT DATA SHEET

(916) 301-6105

ENTE	naineerina Science		<del></del>	CAL LAB NO. 15245-1 CLIENT I.D. Well #33S	
	ACID COMPOUNDS	μg/L	<u>BA</u>	SE/NEUTRAL COMPOUNDS	μg/L
21A 2,	4,6-trichlorophenol	ND	418	4-bromophenyl phenyl ether	ND
	chloro-m-cresol	ND	42B	bis(2-chloroisopropyl)ether	ND
24A 2-	chlorophenol	ND	43B	bis(2-chloroethoxy)methane	ND
31A 2,	4-dichlorophenol	ND_	52B	bexachlorobutadiene	ND
34A 2,	4-dimethylphenol	ND_	53B	hexachlorocyclopentadiene	ND
57A 2-	ni trophenol	ND	54B	isophorone	ND
58A 4-	nitrophenol	ND.	558	naphthalene	ND
59A 2,	4-dinitrophenol	ND	568	n i trobenzene	ND
60A 4,	6-dinitro-o-cresol	ND	61B	N-nitrosodiwethylamine	ND
64A pe	entachlorophenol	ND	62B	N-nitrosodiphenylamine	ND
65A ph	ieno)	ND_	63B	.N-nitrosodi-n-propylamine	סא
			66B	bis(2-ethylhexyl)phthalate	68
•• •	BASE/NEUTRAL COMPOUNDS		678	butyl benzyl phthalate	NE
1B ace	enaph thene	ND	688	di-n-butyl phthalate	NE
	nzidine	ND_	69B	di-n-octyl phthalate	NE
	4-trichlorobenzene	ND	70B	diethyl phthalate	ND
	ach l orobenzene	ND	718	dimethyl phthalate	NC
	each loroe thane	ND	72B	benzo(a)anthracene	NE
	(2-chloroethyl)ether	ND	738	benzo(a)pyrene	NE
	thloronaph thalene	ND	748	3,4-benzofluoranthene	NE
	2-dichlorobenzene	ND	<u>758</u>	benzo(k)fluoranthene	NE
268 1,3	3-dichlorobenzene	ND	76B	chrysene	NÜ
	l-dichlorobenzene	ND	<u>778</u>	acenaphthylene	N
	3'-dichlorobenzidine	ND ND	788	anthracene	NE
358 2,4	l-dinitrataluene	ND_	<u>798</u>	benzo(ghi)perylene	NE
	i-dinitrotoluene	ND	80B	fluorene	NE
378 1,2	2-diphenylhydrazine		818	phenanthrene	ND
(as	azobenzene)	ND_	828	dibenzo(a,h)anthracene	NC
	oranthene	<u>ND</u>	838	indeno(1,2,3-cd)pyrene	ND
408 4-0	chlorophenyl phenyl ether	ND	84B	pyrene	NC

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Mc Clellon AFB

ES ID 821054

WELL # 335

Aliquot analyzed 2.204

Date Received 10/1/82

Detector Used: Coulson, EC, Flame, PID

Date analyzed 170c782	Chemist <u>MSR</u>	Approved	
	Detection Limits	Found (ppb)	
Aldrin	0.003	40.003	
Alpha BHC	0.002	40.002	
Beta BHC	0.004	2004	
Delta BHC	0.004	2066	
Gamma BHC (lindane)	0.002	40.002	
Chlordane	0.04	40.04	
DOD (TOE)	0.012	40.012	
DDE	0.006	40.006	
DDT	0.016	200b	
Dieldrin	0.006	20.006	
Endosulfan I	0.005	40.005	
Endosulfan II	0.01	L0.01	
Endosulfan sulfate	0.03	40,03	
Endrin -	0.009	L0.009	
Heptachlor	0.002	40,002	
Heptachlor epoxide	0.004	4004	
Methoxychlor	0.02	4002	
Toxaphene	0.40	40.40	
2,4,D	0.001	0.154	
2, 4, 5, T	0.001	2.001	
2,4,5 TP (Silvex)	0.002	2.002	
DBCP (Dibromochloro propane)			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### AROCLOR (PCB) REPORT FORM

Sample ID McClellan AFB	Clellan AFB ES ID 821 054					
MW 335	Aliquot Analyzed 2.20 ML					
Date Received   October 1992	Detector Used: Chemist_MSB	EC, Coulson, Flame, PID Approved				
	Detection Limits (ppb)	Found (ppb)				
Aroclor 1016		<u>-</u>				
Aroclor 1221						
Aroclor 1232						
Aroclor 1242						
Aroclor 1248	<del> </del>					
Aroclor 1254	<del> </del>					
Aroclor 1260						

Not detected.

### METALS REPORT FORM

Sample ID Me Clollan Al	<b>B</b>	es 10 <u>82/05</u> 4
WELL# 335		Aliquot analyzed
Date Received 10/1/82		Method Used
Date analyzed	Chemist	Approved

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum	·	500	50		
Antimony	p,c	500	10	<10	
Arsenic	p,h,c,d,o		10	< <b>5</b> 0	•
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<10	•
Calcium		50	<u>-</u>		
Chromium (+3)	p,h,c,d,o	20	1	< <i>50</i>	•
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	< 50	
Gold	71	100	1		,
Iron	đ	100	1		,
Lead	p,h,c,d,o	100	10	18	
Lithium		50	900		
Magnesium		1			<del> </del>
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.5	
Molybdenum	c	500			
Nickel	p,c,o	40	1	440	
Potassium		10			
Selenium	p,h,c,d		10	410	
Silicon	· · · · · · · · · · · · · · · · · · ·	10			<del></del>

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8/27/82

- 3-530

# 821054(LONT)

Element	Code	Detection Flame	r Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	< <i>5</i> 0	
Sodium		10			-
Thallium	p,c,				
Tin					
Vanadium	С				
Zinc	p,c,d,o	- 5	0.05	420	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/29

CLIENT	Er	ngineering-Science	CAL LAB NO
CLIENT	I.D.	Well #36S	
		VOLATILES	ug/L or ug/Kg
	24	acrolein	ND
	3٧	acrylonitrile	ND
	44	benzene	ND
	6V	carbon tetrachloride	ND
	74	chlorobenzene	ND ND
	100	1,2-dichloroethane	MD
	117	1,1,1-trichloroethane	ND
	137	1,1-dichloroethane	ND
	144	1,1,2-trichloroethane	ND
	150	1,1,2,2-tetrachloroethane	ND ND
	167	chloroethane	ND
	190	2-chloroethylvinyl ether	ND ND
	23V	chloroform	ND .
	_29V	1,1-dichloroethylene	ND
	30 <b>v</b>	1,2-trans-dichloroethylene	ND
,	324	1,2-dichloropropane	ND ·
	337	1,3-dichloropropylene	ND
	38V	ethy l benzene	ND
	444	methylene chloride	ND
,	457	methyl chloride	ND
,	467	methyl bromide	ND
	474	braneform	ND
	487	dichlorobromomethane	ND
	494	trichlorofluoromethane	ND
	<u>50v</u>	dichlorodifluoromethane	ND
•	517	chlorodibromomethane	NO
	85V	tetrachloroethylene	5
	86¥	toluene	ND
	874	trichloroethylene	ND NO = Not detected
	88V	vinyl chloride	NO.

#### SAGE POWER INN ROAD SACRAMENTO, CALIFORNIA 96624 (916) 361-6105

9/29

LIENT _	Engineering-Science		CAL LAB NO. 15245-2	
			CLIENT 1.D. #36S	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	µg/L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22A	p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
24A	2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	ND
31A	2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
57A	2-ni trophenol	ND_	548 isophorone	ND
58A	4-nitrophenol	ND	55B naphthalene	ND
59A	2,4-dinitrophenol	ND	568 nitrobenzene	ND
60A	4,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine	NE
64A	pentachlorophenol	ND	628 N-nitrosodiphenylamine	NE
65A	phenul	* ND_	63B N-nitrosodi-n-propylamine	NE
			668 bis(2-ethylhexyl)phthalate	54
	BASE/NEUTRAL COMPOUNDS	•	67B butyl benzyl phthalate .	NE
18	acenaph thene	ND	68B di-n-butyl phthalate	N(
5B	benzidine	ND	698 di-n-octyl phthalate	NE
88	1,2,4-trichlorobenzene	ND	70B diethyl phthalate	NE
98	hexach lorobenzene	ND_	718 dimethyl phthalate	NI
128	hexach loroethane	ND	728 benzo(a)anthracene	NI
188	bis(2-chloroethyl)ether	ND_	738 benzo(a)pyrene	N.
208	2-chloronaphthalene	ND	748 3,4-benzofluoranthene	N
25B	1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	NI
268	1,3-dichlorobenzene	ND	76B chrysene	NI
278	1,4-dichlorobenzene	ND	77B acenaph thy lene	N.
288	3,3'-dichlorobenzidine	ND	788 anthracene	N
<u>358</u>	2,4-dinitrotoluene	ND	79B benzo(ghi)perylene	N
368	2,6-dinitrotoluene	,ND	808 fluorene	N
37B	1,2-diphenylhydrazine		818 phenanthrene	N
	(as azobenzene)	ND ND	828 dibenzo(a,h)anthracene	N
	fluoranthen:	ND_	838 indeno(1,2,3-cd)pyrene	N
408	4-chlorophenyl phenyl ether	ND	848 pyrene	N

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McCloslon AFB

es 10 <u>82/05</u>5

WELL# 365

Date Received 10/1/82

Aliquot analyzed 2.65µl

Detector Used: Coulson, EC, Flame, PID

Date analyzed 17 Oct., 1982	Chemist NB	Approved	
• · · · · · · · · · · · · · · · · · · ·	Detection Limits	Found (ppb)	
Aldrin	0.003	40.003	
Alpha BHC	0.902	40.002	
Beta BHC	0.004	40.004	
Delta BRC	0.004	0.052	
Casma BHC (lindane)	0.002	0.015	
Chlordane	0.04	4004	
DDD (TDE)	0.012	40.012	
DDE	0.006	LA006	
DDT .	0,016	Laoib.	
Dieldrin	0.006	40.006	
Endosulfan I	0.005	40.005	
Endosulfan II	0.01	4001	
Endosulfan sulfate	0.03	40.03	
Endrin	0.009	40.009	
Heptachlor	0.002	∠0.∞2	
Heptachlor epoxide	0.004	0.01	
Methoxychlor	0.02	20.02	
Toxaphene	0.40	40.40	
2,4,D	0.001	0.56	
2, 4, 5, T	0.001	60.001	
2,4,5 TP (Silvex)	0.002	2.002	
DBCP (Dibromochloro propane)			

ENGINEERING-SCIENCE - BERKELEY LABORATORY

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#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB		ES ID 821055	
MW 365	Aliquot Analyzed 2.65 pt		
Date Analyzed October 1982	Detector Used: Chemist MSB	EC, Coulson, Flame, PI Approved	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260		···	
	Not detected.		

## METALS REPORT FORM

Date Received Date analyzed	10/1/82	Chemis	ŀ	Aliquot analyzed  Method Used  Approved	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50	<del></del>	
Antimony	p,c	500	10	<10	
Arsenic	p,h,c,d,o		10	450	
Barium	h,c,d	1,000	5		· ·
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<10	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	<50°	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>450</b>	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	19	
Lithium		50			
Magnesium		1			
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	<b>40.5</b>	
Molybdenum	c	500			
Nickel	p,c,o	40	1	440	
Potassium		10			
Selenium	p.h.c.d	-	10	10	

10

64/18

Silicon

8/27/82

## 821055(cond)

		Detection			
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<b>450</b>	
Sodium		10			
Thallium	р,с,				_
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	45.0	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

engineering-science - Berkeley Laboratory

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

### PRIORITY POLLUTANT DATA SHEET

CLIENT _____ Fngineering-Science CAL LAS NO. 15245-3
CLIENT I.O. ____ Well #37S

	VOLATILES	ug/L or ug/Kg
29	acrolein	ND_
3٧	acrylonitrile	D
44	benzene	ND
6V	carbon tetrachloride	ND
79	chlorobenzene	ND
100	1,2-dichloroethane	ND
117	1,1,1-trichloroethane	ND
134	1,1-dichloroethane	ND
144	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
167	chloroethane	ND
197	2-chloroethylvinyl ether	ND
23V ·	chloroform	ND
29V	1,1-dichlaroethylene	ND ·
<u>30v</u>	1,2-trans-dichloroethylene	ND
327	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
387	ethylbenzene	ND
444	methylene chloride	ND
_45V_	methyl chloride	ND
467	methyl bromide	ND
_47Y_	<u>bramoform</u>	ND
487	<u>dichlarobromomethane</u>	ND
497	trichlorofluoromethane	ND
_50V	dichlorodifluoromethane	ND
517	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87Y	trichloroethylene	ND NO
_ Y88	vinyl chloride	NO

ND - Not detected

#### 6466 FOWER INN ROAD BACRAMENTO, CALIFORNIA 95424 (818) 381-6105

9/28

NT <u>Engineering-Science</u>		CAL LAB NO15245-3	
	<del></del>	CLIENT I.D. Well #375	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	428 bis(2-chloroisopropyl)ether	ND
24A 2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	ND
31A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	558 naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-creso!	ND	61B N-nitrosodimethylamine	ND
64A pentach lorophenol	ND	62B N-nitrosodiphenylamine	ND
65A pheno1	ND	63B .N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate .	ND
18 acenaphthene	., ND	68B di-n-butyl phthalate	ND
58 benzidine	ND	698 di-n-octyl phthalate	ND
88 1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
98 hexachlorobenzene	ND	718 dimethyl phthalate	ND
128 hexachloroethane	ND	72B benzo(a)anthracene	ND ·
188 bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene	ND
208 2-chloronaphthalene	' ND	74B 3,4-benzofluoranthene	ND
258 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	ND
268 1,3-dichlorobenzene	ND	76B chrysene	ND
278 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
288 3,3'-dichlorobenzidine	ND	788 anthracene	ND
358 2,4-dinitrotolyene	ND	798 benzo(ghi)perylene	ND
368 2,6-dinitrotoluene	ND	808 fluorene	ND
37B 1,2-diphenylhydrazine		81B phenanthrene	ND
(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ND
398 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND

PESTICIDE/HERBICIDE REFORT FORM ES ID 82/049 Sample ID Mc Clellan AFB WELL# 375 Aliquot analyzed _____ Date Received 10/1/82 Detector Used: Coulson, EC, Flame, PID Date analyzed 2Nov. 1482 Chemist MSB Approved Detection Limits Found (ppb) Aldrin 0.003 L0003 Alpha BHC Lacoz 0.002 Beta BHC 40.004 0.004 Delta BHC 0.004 0121 Gamma BHC (lindane) 0.002 40.002 Chlordane 40.04 0.04 DDD (TDE) 40.012 0.012 40.006 0.006 DDT 0.016 4006 ··· Dieldrin 40.006 0.006 Endosulfan I 40.005 0.005 Endosulfan II **La0** 0.01 Endosulfan sulfate L0.03 0.03 Endrin 0.009 20.009 Heptachlor 0.002 40.002 Heptachlor epoxide 0.004 20004 Methoxychlor 0.02 40.02 Toxaphene 4040 0.40 2,4,D 2.001 0.001 2,4,5,T 0.004 0.001 2,4,5 TP (Silvex) <.00€ 0.002

-	· . <u>-</u>	ENGINEERING-SCIENCE - BERKELEY	LABORATORY	the collective for their relativestation is a second part of the Lot of Collective and Collective and Collective Second
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	

المحادث و

DBCP (Dibromochloro propane)

## AROCLOR (PCB) REPORT FORM

Sample ID McClellan AFB	•. •	ES ID 82/049
MW#375	Alique	ot Analyzed
Date Received / October 1982  Date Analyzed & November 1982		EC, Coulson, Flame, PID
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		·
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		
	Not detected.	

#### METALS REPORT FORM

Sample ID McCholom AFB ES ID 821049 Weu # 375 Aliquot analyzed ____ Date Received 10/1/82 Method Used Approved ____ Date analyzed _ Chemist Detection Limit (ppb)
Flame Flameless Element Code Limit Aluminum 500 50 500 10 Antimony p,c 410 10 Arsenic p,h,c,d,o 450 Berium h,c,d 1,000 5 Beryllium p,c, Cadmium p,h,c,d,o 5 0.1 <10 Calcium 50 Chromium (+3) p,h,c,d,o 20 1 450 Chromium (+6) c 10 1 Cobalt 50 Copper 20 1 p,c,d,o 450 Gold 100 1 Iron đ 100 1 Lead 100 10 p,h,c,d,o 10 Lithium 50 Magnesium 1 Manganese 10 0.5 Mercury p,h,c,d,o 0.5 <0.5 Molybdenum 500 C Nickel 40 1 p,c,0 440 Potassium 10 Selenium 10 p,h,c,d 410.

10

Silicon

## 821049(cONT)

### 11 W 375

		Detection Limit (ppb)		•	• • • •	
_ Element	Code	Flame	Flameless	Detected	Limit	
Silver -	p,h,c,d,o	. 50	1	450	·—	
Sodium		10				
Thallium	p,c,					
Tin						
Vanadium	С					
Zinc	p,c,d,o	5	0.05	420.		

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

ENGINEERING-SCIENCE - BERKELEY LABORATORY -

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

91,4

9/1	4	PRIORITY POLLUTANT DATA	SHEET	
CLIENT		Engineening Science	CAL LAB N	0. 15174-1
CLIENT	I.D.	Well # 395		
·	- '	VOLATILES	ua/l) or ua/	<b>Kg</b>
	27	acrolein		
•		acrylonitrile	ND "	
•	3٧	benzene	<u> </u>	
•	<u>4V</u>	carbon tetrachloride	No	
•	6V_	chlorobenzene	NO	
•	77		<u> </u>	-
•	<u> 10v</u>	1,2-dichloroethane	<u></u>	
•	117	1,1,1-trichloroethane	N	
•	137	1,1-dichloroethane	No	
•	147	1,1,2-trichloroethane	<u></u>	
•	<u> 15V</u>	1,1,2,2-tetrachloroethane	<u> </u>	
	164	chloroethane	NO	
	197	2-chloroethylvinyl ether	NO	
•	23V	chloroform	<u></u>	
	29V	1,1-dichloroethylene	NO	
	_30 <b>V</b>	1,2-trans-dichloroethylene		
٠.	32 <b>Y</b>	1,2-dichloropropane	NO	
	33V	1,3-dichloropropylene	NO	
	38V	ethyl benzene	NO	
	444	methylene chloride	NO	
	45V	methyl chloride	N	
	464	methyl bromide	NO	
	47Y	bromoform	NO	
	48V	dichlorobromomethane	NO	•
	49V	trichlorofluoromethane	w	
·	50 <b>V</b>	dichlorodifluoromethane	NO	
•	517	chlorodibromomethane	NO	
•	85V	tetrachloroethylene	No	
•	86V	taluene	NO	
,	877	trichloroethylene		ND = Not detected
	887	vinyl chloride	10	

#### 5895 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (916) 361-6105

ENT	Engineering Scien	62	CAL LAB NO/5/74/	<u>- / </u>
	2141.1661314 36461.	<u> </u>	CLIENT I.D. hour 3	95
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	µg/L
21A	2,4,6-trichlorophenol	NO	41B 4-bromophenyl phenyl ether	NO
22A	p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	جرور .
24A	2-chlorophenol	ND	43B bis(2-chloroethoxy)methane	אינו
31A	2,4-dichlorophenol	No.	52B bexachlorobutadiene	ين ر
34A	2,4-dimethylphenol	<i></i>	53B hexachlorocyclopentadiene	12
57A	2-nitrophenol	NO	54B isophorone	Л
58A	4-nitrophenol	NO	55B naph tha lene	بر .
59A	2,4-dinitrophenol	ND	56B nitrobenzene	· /
60A	4,6-dinitro-o-cresol	NO	61B N-nitrosodimethylamine	16
64A	pentachlorophenol	LO	62B N-nitrosodiphenylamine	1
65A	pheno1	ND	638 N-nitrosodi-n-propylamine	1
			66B bis(2-ethylhexyl)phthalate	
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	N
18 8	acenaphthene	4 '5	68B di-n-butyl phthalate	
	benzidine		69B di-n-octyl phthalate	
	1,2,4-trichlorobenzene	ND	70B diethyl phthalate	
	hexachlorobenzene	NO	718 dimethyl phthalate	/
	hexach loroe thane	NI)	728 benzo(a)anthracene	
		منيدانين بمواكا ليسانا المالا	73B benzo(a)pyrene	
	bis(2-chloroethyl)ether	NO	74B 3,4-benzofluoranthene	7
	2-chloronaphthalene 1,2-dichlorobenzene	NO	758 benzo(k)fluoranthene	1
		<u>ND</u>	76B chrysene	/
	1,3-dichlorobenzene	1.17	778 acenaphthylene	
	1,4-dichlorobenzene	<u> </u>	788 anthracene	
	3,3'-dichlorobenzidine	1.0	798 benzo(ghi)perylene	/
	2,4-dinitrotoluene	<u> </u>	80B fluorene	
	2,6-dinitrotoluene	<u> </u>	818 phenanthrene	
3/B 	1,2-diphenylhydrazine (as azobenzene)	11)	828 dibenzo(a,h)anthracene	
398	fluoranthene	NO	838 indeno(1,2,3-cd)pyrene	70
	4-chlorophenyl phenyl ether		848 purpose	

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/29

CLIENT	En	oineering-Science	CAL LAB	NO. 15245-5
CLIENT	1.0	#40S	···	
		VOLATILES	ug/i or ug	/K9
	24	acrolein	ND	·         •
	_3v	acrylonitrile	ND	
	44	benzene	ND	•
	_6V	carbon tetrachloride	ND	
	7٧	chlorobenzene	ND	
	100	1,2-dichloroethane	ND	
	117	1,1,1-trichloroethane	ND	we to a part
	134	1,1-dichloroethane	ND	4
	144	1,1,2-trichloroethane	ND	• • •
•	150	1,1,2,2-tetrachloroethane	ND	••
•	164	chloroethane	ND	
	190	2-chloroethylvinyl ether	ND	
	23V	chloroform	ND	•
	_29V	1,1-dichloroethylene	ND ·	
	_30V	1,2-trans-dichloroethylene	ND	
	_32 <b>y</b>	1,2-dichloropropane	ND	· · · · · · · · · · · · · · · · · · ·
	_33V	1,3-dichlaropropylene	ND	<del></del>
	38V	ethylbenzene	ND	
	444	methylene chloride	ND	***************
±	45V	methyl chloride	ND	e en en en en en en en en en en en en en
	46V	methyl bromide	ND	
	47V	bromoform	NO	Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Commen
*	48V	dichlorobromome thane	NO	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
	49V	trichlorofluoromethane	ND	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
	50V	dichlorodifluoromethane	ND	and the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of th
	517	chlorodibromomethane	ND	and the same company of the territories and the same company of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
·	85V	tetrachloroethylene	ND	
	867	toluene	ND	
	87V	trichloroethylene	5	ND = Not detected
		vinyl chloride	NDND	
		1111/1 211/22	NU	

EAGRAMENTO, CALIFORNIA 95624 (§14) 381-6105

9/29

9/29	PRIVALL	POLLUTAIT		
IENT Engineering-S	cience		CAL LAB NO. 15245-5	
ACID COMPOU	INDS	µg/L	CLIENT I.D. Well #40S BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-trichle	prophenol	ND	418 4-bromophenyl phenyl ether	ND
22A p-chloro-m-ci		ND	428 bis(2-chloroisopropyl)ether	ND
24A 2-chloropheno		ND	43B bis(2-chloroethoxy)methane	ND
31A 2,4-dichloro		ND	52B bexachlorobutadiene	ND
34A 2,4-dimethyl		ND	538 hexachlorocyclopentadiene	ND
57A 2-nitropheno		ND	548 isophorone	ND
58A 4-nitropheno		ОИ	55B naphthalene	ND
59A 2,4-dinitropi		ND _	56B nitrobenzene	ND
60A 4,6-dinitro-		ND _	61B N-nitrosodimethylamine	ND
64A pentachlorop		ND	62B N-nitrosodiphenylamine	ND
65A phenol		ND	63B N-nitrosodi-n-propylamine	ND
			66B bis(2-ethylhexyl)phthalate	ND
BASE/NEUTR	AL_COMPOUNDS		67B butyl benzyl phthalate .	ND
18 acenaphthene	A.	ND	68B di-n-butyl phthalate	ND
58 benzidine		ND	69B di-n-octyl phthalate	ND
88 1,2,4-trichlo	robenzene	ND	70B diethyl phthalate	ND
98 hexachloroben	<del></del>	ND	71B dimethyl phthalate	ND
128 hexachloroeth		ND	72B benzo(a)anthracene	ND
188 bis(2-chloroe		ND	738 benzo(a)pyrene	ND
208 2-chloronapht		ND	74B 3,4-benzofluoranthene	ND
258 1,2-dichlorob		ОМ	75B benzo(k)fluoranthene	ДN
268 1,3-dichlorot		ND	76B chrysene	ND
278 1,4-dichlorot		ND	77B acenaphthylene	ND.
288 3,3'-dichlore		ND_	788 anthracene	ND
35B 2,4-dinitroto		ND	798 benzo(ghi)perylene	ND
368 2,6-dinitrote		ND	80B fluorene	ND
37B 1,2-diphenyli	<del></del>		818 phenanthrene	ND
(as azobenzei		ND	82B dibenzo(a,h)anthracene	מא
398 fluoranthene		ND	83B indeno(1,2,3-cd)pyrene	ND_
408 4-chlorophen	yl phenyl ether	ND	848 pyrene	ND

PESTICIDE/HERBICIDE REPORT FORM ES ID 82/05/ Sample ID M. Collan AFB Well# 405 Aliquot analyzed 2.30,0 Date Received 10/1/82 Detector Used: Coulson, EC, Flame, PID Date analyzed | FOCt 1982 Chemist MSB Approved Detection Limits Found (ppb) Aldrin 60.003 0.003 Alpha BHC 60.002 0.002 Beta BHC L0.004 0.004 Delta BHC 0.048 0.004 Gamma BHC (lindame) 0.002 40.002 Chlordane 0.04 4004 DOD (TDE) 40.012 0.012 DDE 40,006 0.006 DDT 40016 0.016 Dieldrin 40006 0.006 Endosulfan I L0.005 0.005 Endosulfan II 0.01 Laoi Endosulfan sulfate 40.03 0.03 Endrin 40,009 0.009 Heptachlor 40.002 0.002 Heptachlor epoxide 40.004 0.004 Methoxychlor 40.02 0.02 Toxaphene 40.40

0.40

0.001

0.001

0.002

2,4,D

2,4,5,T .....

2,4,5 TP (SLIVEX)

DBCF (Dibromochloro propane)

ENGINEERING-SCIENCE - BERKELEY LABORATORY

<----

4.001

6.002

## AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB  MW # 405	Aliqu	Aliquot Analyzed 2.30 \( \mathcal{L} \)	
Date Analyzed 12 October 1982	Detector Used: Chemist MSB	EC, Coulson, Flame, PID Approved	
	Detection Limits (ppb)	Found (ppb)	
Aroclor 1016			
Aroclor 1221			
Aroclor 1232			
Aroclor 1242			
Aroclor 1248			
Aroclor 1254			
Aroclor 1260			

Not detected.

## METALS REPORT FORM

29mbis in 511		,1FB		ES 1D	821031
WELL# -				Aliquot analyzed	
Date Received	10/1/82	•		Method Used	<del></del>
Date analyzed		Chemis	st	Approved	<del></del>
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected ug/L	Limit
Aluminum		500	50		
Antimony	p,c	500	10	410	
Arsenic	p,h,c,d,o		10	4.50	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	410	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	450	
Chromium (+6)	C		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	450	
Gold		100	1	<del></del>	
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	13	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.5	
Molybdenum	c	500			
Nickel	р,с,о	40	1	440	
Potassium		10			
Selenium	p,h,c,d		10	<b>4</b> 10	
Silicon		10			
					<del></del>

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	² 50	
Sodium		10			
Thellium	p,c,				
Tin				- ·-	
Vanadium	c			•••	
Zine	p,c,d,o	5	0.05	420	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Realth Services hazardous waste d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/14

_	9/14		<u></u>	PRIORITY POLLUTA	INT DATA SHEET	· · · · · · · · · · · · · · · · · · ·	
	CLIENT	_ &	ngineening	Science		CAL LAB NO	. 15174-2
	CLIENT		Well	#415			
-			VOLATILES	5_	- (	ug/l or ug/K	<b>i</b> g <b>p</b>
		2V	acrolein	l		···· NO	••
		3٧	acryloni	trile			
		4٧	benzene				
		6٧	carbon t	etrachloride		NO	
		7٧	chlorobe	nzene		ND	
		107	1,2-dich	loroethane		NO	
		117	1,1,1-tr	richloroethane		NO	
		13 <b>V</b>	1,1-dich	loroethane		un	
		147	1,1,2-tr	ichloroethane		N	
		15V	1,1,2,2-	tetrachloroetha	ne	un	
		167	chloroet	thane		NO	
		197	2-chlore	ethylvinyl ethe	r		
		23V	chlorofo	)/III		~0	
		29V	1,1-dich	loroethylene		5	
		30V	1,2-tran	ns-dichloroethyl	ene	10	
		32 <b>Y</b>	1,2-dict	nioropropane		ND	
		33V	1,3-dic	hloropropylene		NO	
			ethylber	nzene		NO	
		447	methyle	ne chloride		NO	
		45V	methyl (	chloride		10	
		467	methyl l	bromi de		n	
		479	bromofo			NO	
		487	dichlor	obromomethane	··-	10	
		49V	trichlo	rofluoromethane		No	
		50V	dichlor	<u>odifluoromethan</u>	<u> </u>	No	
		517	chlorod	ibromomethane		NO	
		85V	tetrach	loroethylene		np	
		86V	toluene			NO	
		87V	trichlo	roethylene		20 N	D = Not detected
		88V	vinyl c	hloride		NO	

#### Sees Power Inn Road Sacramento, California 95824 (916) 381-6105

	· < . `		CAL LAB NO. 15/74	1-2
IENT Site	Sione Sione		CLIENT I.D. Well ?	¥415
ACID	COMPOUNDS	_ μg/L	BASE/NEUTRAL COMPOUNDS	. µg/L
21A 2,4,6-t	richlorophenol	NO	418 4-bromophenyl phenyl ether	· no
22A p-chlor	o-m-cresol	ND	428 bis(2-chloroisopropyl)ethe	r
24A 2-chlor	opheno1	(براء	438 bis(2-chloroethoxy)methane	Re
31A 2,4-dic	nlorophenol	NO	52B bexachlorobutadiene	n
34A 2,4-dim	ethylphenol	101)	538 hexachlorocyclopentadiene	11.
57A 2-nitro	phenol	nt)	548 isophorone	12:
58A 4-nitro	phenol	NI)	55B naph thalene	1
59A 2,4-din	itrophenol	11)	56B nitrobenzene	N
60A 4,6-din	itro-o-cresol	NO	61B N-nitrosodimethylamine	R
64A pentach	1orophenol	ND	62B N-nitrosodiphenylamine	11
65A pheno1		no	638 N-nitrosodi-n-propylamine	11
			66B bis(2-ethylhexyl)phthalate	e //
BASE	NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	,
18 acenapht	hone	<u>).1)</u>	68B di-n-butyl phthalate	ji
5B benzidir		<u>M)</u>	698 di-n-octyl phthalate	je
	ichlorobenzene	4	70B diethyl phthalate	1
	robenzene	112	71B dimethyl phthalate	12
128 hexachic		1612	72B benzo(a)anthracene	
	loroethyl)ether	M	738 benzo(a)pyréne	
	onaph tha lene	NO	74B 3,4-benzofluoranthene	
ويواكنتك والمواكون	1 orobenzene	NO	75B benzo(k)fluoranthene	
	lorobenzene	NO	76B chrysene	
	lorobenzene	NO	77B acenaphthylene	N
	hlorobenzidine	M	788 anthracene	· jA
35B 2,4-din		112	798 benzo(ghi)perylene	/
368 2,6-din		ND	80B fluorene	
	nenylhydrazine		818 phenanthrene	- 12
	benzene)	N.D	82B dibenzo(a,h)anthracene	· ft,
398 fluoren	thene	KID	83B indeno(1,2,3-cd)pyrene	j
408 4-chlor	ophenyl phenyl ether	12	848 pyrene	· · · · · · · · · · · ·

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClellan Well 415		es id <u>82/0/3</u>
	Aliqu	not analyzed 630,0
Date Received (6 Supl 8)	Detector Used:	Coulson, EC, Flame, PI
Date analyzed 17 oct 82	Chemist MSB	Approved
	Detection Limits	Found (ppb)
Aldrin	0.003	40.003
Alpha BHC	9.902	40.002
Beta BHC	0.004	40.004
Delta BHC	0.004	· Lacot
Gamma BHC (lindane)	0.002	40.002
Chlordane	0.04	40.04
DDD (TDE)	0.012	40012
DDE	0.006	20.00b
DDT	0.016	20.01b
Dieldrin	0.006	40.006
Endosulfan I	0.005	40.006
Endosulfan II	0.01	4 0.01
Endosulfan sulfate	0.03	4003
Endrin	0.009	40.009
Heptachlor	0.002	40.002
Heptachlor epoxide	0.004	40.004
Methoxychlor	0.02	L0.02
Toxaphene	0.40	L0.40
2,4,D	0.001	<b>4.00</b> 1
2, 4, 5, T	0.001	<.001
2,4,5 TP (Silvex)	0.002	6.002
BCP (Dibromochloro propane)		

engineering-science - Berkeley Laboratory

25 76

## AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID <u>\$210/3</u> Aliquot Analyzed <u>6.30 µ L</u>				
MW#415  Date Received 16 September 1982  Date Analyzed 17 October 1982		EC, Coulson, Flame, PID			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232	·				
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Chemist ____

- Samp	Le_ID	M	ca	<u>ell</u>	m
	W.				
	Recei				
				•	

ES ID <u>82/0/3</u>
Aliquot analyzed
Method Used
Annound

Element	Code	Detection Flame	Flameless	Detected ug/l	Limit
Aluminum		500	50	7/	
Antimony	p,c	500	10	210	
Arsenic	p,h,c,d,o		10	450	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>&lt;</b> 5	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	<20	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,ċ,d,o	20	1	420	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<b>₹</b> 20	
Lithium		50	***		
Magnesium		1	900		
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.5	
Molybdenum	c	500			
Nickel	p,c,o	40	1	<40	
Potassium		10			
Selenium	p,h,c,d		10	<10	
Silicon		10			

Detection Limit (ppb)					
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<10	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	<10	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/27

ND	CLIENT	Eng	ineering-Science	CAL LAB NO. 15245-6
VOLATILES	-			
acrylonitrile ND  4y benzene ND  6y carbon tetrachloride ND  7y chlorobenzene ND  10y 1,2-dichloroethane ND  11y 1,1,1-trichloroethane ND  13y 1,1-dichloroethane ND  14y 1,2-trichloroethane ND  15y 1,1,2,2-tetrachloroethane ND  16y chloroethane ND  19y 2-chloroethylvinyl ether ND  23y chloroform ND  29y 1,1-dichloroethylene ND  30y 1,2-trans-dichloroethylene ND  32y 1,2-dichloropropane ND  32y 1,2-dichloropropane ND  44y methylene chloride ND  45y methyl chloride ND  45y methyl chloride ND  46y methyl bromide ND  48y dichloroform ND  48y dichloroform ND  50y dichlorofluoromethane ND  51y chlorofluoromethane ND  85y tetrachloroethylene ND  86y toluene ND  87y trichloroethylene ND				ug/L or ug/Kg
4y benzene ND 6y carbon tetrachloride ND 7y chlorobenzene ND 10y 1,2-dichloroethane ND 11y 1,1-trichloroethane ND 13y 1,1-dichloroethane ND 14y 1,1,2-trichloroethane ND 15y 1,1,2,2-tetrachloroethane ND 16y chloroethane ND 16y chloroethane ND 19y 2-chloroethyleinyl ether ND 23y chloroform ND 23y chloroform ND 23y 1,1-dichloroethylene ND 30y 1,2-trans-dichloroethylene ND 32y 1,2-dichloropropane ND 32y 1,2-dichloropropane ND 32y 1,3-dichloropropale ND 33y 1,3-dichloropropylene ND 44y methylene chloride ND 45y methyl chloride ND 45y methyl chloride ND 46y methyl bromide ND 48y dichlorobromomethane ND 50y dichlorofluoromethane ND 50y dichlorofluoromethane ND 51y chlorodifluoromethane ND 85y tetrachloroethylene ND 86y toluene ND		_2 <b>V</b>	acrolein	ND
6V carbon tetrachloride ND  7V chlorobenzene ND  10V 1,2-dichloroethane ND  11V 1,1,1-trichloroethane ND  13V 1,1-dichloroethane ND  14V 1,1,2-trichloroethane ND  15V 1,1,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  23V chloroform ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropale ND  34V methylene chloride ND  45V methyl chloride ND  46V methyl chloride ND  46V methyl bromide ND  48V dichlorobromomethane ND  50V dichloroffluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  86V toluene ND  87V trichloroethylene	-	34	acrylonitrile	ND
10		44	benzene	ND
109   1,2-dichloroethane		6V	carbon tetrachloride	ND
119		7٧	chlorobenzene	ND
13V 1,1-dichloroethane ND  14V 1,1,2-trichloroethane ND  15V 1,1,2,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  48V dichlorofromethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND		104	1,2-dichloroethane	ND .
14V 1,1,2-trichloroethane ND 15V 1,1,2,2-tetrachloroethane ND 16V chloroethane ND 19V 2-chloroethylvinyl ether ND 23V chloroform ND 29V 1,1-dichloroethylene ND 30V 1,2-trans-dichloroethylene ND 32V 1,2-dichloropropane ND 33V 1,3-dichloropropale ND 38V ethylbenzene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl chloride ND 48V dichloropromethane ND 48V dichloroffuoromethane ND 50V dichloroffluoromethane ND 51V chlorodifluoromethane ND 85V tetrachloroethylene ND 86V toluene ND 87V trichloroethylene ND		114	1,1,1-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  86V trichloroethylene ND  86V trichloroethylene ND  86V trichloroethylene ND  86V trichloroethylene ND  87V trichloroethylene ND		137	1,1-dichloroethane	ND ·
16V chloroethane ND 19V 2-chloroethylvinyl ether ND 23V chloroform ND 29V 1,1-dichloroethylene ND 30V 1,2-trans-dichloroethylene ND 32V 1,2-dichloropropane ND 33V 1,3-dichloropropylene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl bromide ND 46V methyl bromide ND 48V dichlorobromomethane ND 50V dichlorofluoromethane ND 51V chlorodifluoromethane ND 85V tetrachloroethylene ND 86V toluene ND 87V trichloroethylene ND 87V trichloroethylene ND 87V trichloroethylene ND 87V trichloroethylene ND		147	1,1,2-trichloroethane	ND
23V chloroform ND 23V chloroform ND 29V 1,1-dichloroethylene ND 30V 1,2-trans-dichloroethylene ND 32V 1,2-dichloropropane ND 33V 1,3-dichloropropylene ND 38V ethylbenzene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl bromide ND 47V bromoform ND 48V dichlorobromomethane ND 50V dichlorofiluoromethane ND 51V chlorodifluoromethane ND 85V tetrachloroethylene ND 86V toluene ND 87V trichloroethylene ND 87V trichloroethylene ND 87V trichloroethylene ND		157	1,1,2,2-tetrachloroethane	ND.
23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND		164	chloroethane	ND · ·
29V 1,1-dichlaroethylene ND  30V 1,2-trans-dichlaroethylene ND  32V 1,2-dichlaropropane ND  33V 1,3-dichlaropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  48V dichlarobromomethane ND  50V dichlarofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachlaroethylene ND  86V toluene ND  87V trichlaroethylene ND		197	2-chloroethylvinyl ether	ND
309 1,2-trans-dichloroethylene ND  329 1,2-dichloropropane ND  339 1,3-dichloropropylene ND  380 ethylbenzene ND  440 methylene chloride ND  450 methyl chloride ND  460 methyl bromide ND  470 bromoform ND  480 dichlorobromomethane ND  500 dichlorofluoromethane ND  510 chlorodifluoromethane ND  850 tetrachloroethylene ND  860 toluene ND  870 trichloroethylene ND  870 trichloroethylene ND  870 trichloroethylene ND		23 <b>V</b>	chloroform	ND
1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND  ND  ND  NO  NO  NO  NO  NO  NO  NO	•	29 <b>V</b>	1,1-dichloroethylene	ND ·
33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND		30V	1,2-trans-dichloroethylene	ND
38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND  87V trichloroethylene ND  87V trichloroethylene ND  87V trichloroethylene ND		32 <b>Y</b>	1,2-dichloropropane	ND .
44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND  ND ND ND NO detected	•	_33V	1,3-dichloropropylene	ND
45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND  87V trichloroethylene ND  87V trichloroethylene ND		_38y	ethylbenzene	ND .
46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND		444	methylene chloride	ND
47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene		45V	methyl chloride	ND
48Y dichlorobromomethane ND  49Y trichlorofluoromethane ND  50Y dichlorodifluoromethane ND  51Y chlorodibromomethane ND  85Y tetrachloroethylene ND  86Y toluene ND  87Y trichloroethylene ND  ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		46V	methyl bromide	ND
49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		474	bramoform	ND .
50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		487	dichlorobromomethane	ND -
SIV chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND ND NO = Not detected		494	trichlorofluoromethane	ND
85V tetrachloroethylene ND  86V toluene ND  87V trichloroethylene ND ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		_50V	dichlorodifluoromethane	ND
86V toluene ND ND ND NO = Not detected	•	517	chlorodibronomethane	ND
877 trichloroethylene ND ND ND NO = Not detected		85V	tetrachloroethylene	ND
8/4 Criculardeding MD		867	toluene	
88V vinyl chloride ND		874	trichlaraethylene	ND = Not detected
<del>-</del>		_887	vinyl chloride	ND

#### 6666 POWER INN ROAD BACRAMENTO, CALIFORNIA 95624 (918) 381-5105

9/27

LIENT	Fngineering-Science		CAL LAB NO15245-6	
.,	PHU III SA TEMPE		CLIENT I.D. Well #42S	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21/	A 2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22/		ND	42B bis(2-chloroisopropyl)ether	ND
24	A 2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	ND
31/	A 2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34	A 2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
57/	A 2-nitrophenol	ND	54B isophorone	ND
58		ND	55B naph thalene	ND
59		ND	56B nitrobenzene	ND
60	<u> </u>	ND	61B N-nitrosodimethylamine	ND
64	·	ND	62B N-nitrosodiphenylamine	ND
65	A	ND	63B , N-nitrosodi-n-propylamine	ND
			66B bis(2-ethylhexyl)phthalate	DM
	BASE/NEUTRAL COMPOUNDS	•	678 butyl benzyl phthalate	ND
18	acenaphthene	, ND	688 di-n-butyl phthalate	ND
58		ND	698 di-n-octyl phthalate	ND
88	بوالمراب والمراب	ND	70B diethyl phthalate	ND
98	· · · · · · · · · · · · · · · · · · ·	DN	71B dimethyl phthalate	ND
	B hexachloroethane	ND	72B benzo(a)anthracene	ND
	38 bis(2-chloroethyl)ether	ND	738 benzo(a)pyrene	ND.
_	OB 2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
-	is 1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	ND
	i8 1,3-dichlorobenzene	ND	76B chrysene	ND
-	7B 1,4-dichlorobenzene	ND	77B acenaphthylene	ND
	38 3,3'-dichlorobenzidine	ND	788 anthracene	ND
_	58 2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND
	6B 2,6-dinitrotoluene	ND	80B fluorene	ND
-	7B 1,2-diphenylhydrazine		818 phenanthrene	ND
	(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ДN
3	98 fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
À	08 4-chlorophenyl phenyl ether	ND	848 pyrene	ND

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McCoolon AFB

ES ID <u>82/048</u>

Aliquot analyzed 3.201

WELL# 425

Date Received 10/1/82

Detector Used: Coulson, EC, Flame, PID

Date analyzed 19 Oct. 1982	Chemist M48	Approved	
mental control and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Detection Limits	Found (ppb)	
Aldrin	0,003	40.003	
Alpha BHC	0.002	40.002	
Beta BRC	0.004	40.004	
Delta BHC	0.004	* 0.051	
Gamma BHC (lindane)	0.002	40002	
Chlordane	0.04	6004	
DDD (TDE)	0.012	40072	
DOE	0.006	4006	
DOT	0.016	4006	
Dieldrin	0.006	4a006	
Endosulfan I	0.005	L0 005	
Endosulfan II	0.01	40.01	
Endosulfan sulfate	0.03	4003	
Endrin	0.009	40.009	
Heptachlor	0.002	40.002	
Heptachlor epoxide	0.004	40.004	
Methoxychlor	0.02	L00Z	
Toxaphene	0.40	L0.40	
2,4,D	0.001	∠.001	
2,4,5,T	0.001	2.001	
2,4,5 TP (Silvex)	0.002	0.031	
DBCP (Dibromochloro propane)			

## AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID 821048					
MW #425	Aliqu	ot Analyzed 3.20 µL				
Date Received 10ctober 1982  Date Analyzed 18 October 1982	Detector Used: Chemist MSB	EC, Coulson, Flame, PID Approved				
	Detection Limits (ppb)	Found (ppb)				
Aroclor 1016						
Aroclor 1221						
Aroclor 1232						
Aroclor 1242						
Aroclor 1248		<del></del>				
Aroclor 1254						
Aroclor 1260						

Not detected

## METALS REPORT FORM

Sample ID 27	c Clellar	ES ID	821048		
WELL#		•		Aliquot analyzed	
Date Received	10/1/82	•		Method Used	
Date analyzed		Chemist		Approved	
Element	Code	Detection Flame	n Limit (ppb) Flameless		Limit
Aluminum		500	50		
Antimony	p,c	500	10	<10	
Arsenic	p,h,c,d,o		10	< 50	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	< 10	
Calcium		50	444-		
Chromium (+3)	p,h,c,d,o	20	1	<b>450</b>	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>&lt;50</b>	
Go1d		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<10	
Lithium		50			
Magnesium		1	***		
Manganese	đ	10	0.5		<del></del>
Mercury	p,h,c,d,o		0.5	<0.5	
Molybdenum	С	500			
Nickel	p,c,o	40	1	440	
Potassium	_	10			
Selenium	p,h,c,d		10	<b>40</b> .	
9111000		10		<del></del>	

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	<b>&lt;50</b>	
Sodium		10			
Thallium	p,c,				
Tin	<del></del>				
Vanadium	c				
Zinc	p,c,d,o	5	0.05	40,0	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

4/14

<u> ۱/۱ ت</u>		TRIGRITI FULL OTTAL		
CLIENT	E	ingineening Science	CAL LAB NO.	15174-3
CLIENT	I.D	will #435		
		VOLATILES	ug/l or ug/Ko	ļ
	27	acrolein		
	3٧	acrylonitrile	10	
	4٧	benzene	NO	
	6V	carbon tetrachloride	N	
	77	chlorobenzene	NO	
	107	1,2-dichloroethane	NO	
	110	1,1,1-trichloroethane	MD	
	137	1,1-dichloroethane	NO	
	147	1,1,2-trichloroethane	NO	
	150	1,1,2,2-tetrachloroethane	NO	
	167	chloroethane	M	
	197	2-chloroethylvinyl ether	10	
	23V	chloroform	ND	
	297	1,1-dichloroethylene	no	
	30V	1,2-trans-dichloroethylene	NO	
	32 <b>y</b>	1,2-dichloropropane	NO	
	33V	1,3-dichloropropylene	<u>no</u>	
	38V	ethy1benzene	M	
	447	methylene chloride	NO	
	_45V	methyl chloride	NO	
	46V	methyl bromide	No	
	47V	bromoform	n	
	48V	dichlorobromomethane	ND	•
	49V	trichlorofluoromethane	NO	
	50V	dichlorodifluoromethane	NO	
	517	chlorodibromomethane	no	
	85V	tetrachloroethylene	NO	
	86V	toluene	no	
	87V	trichloroethylene	M	D = Not detected
		vinyl chloride	700	
	V88	AINAI CHIOLIGE	NO	

#### 5865 POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 381-6105

A	WANT GATA CUPPT
1/14 PRIORITY POLLU	TANT DATA SHEET
CLIENT - Engineering Science	CAL LAB NO. 15/74-3
J	CLIENT I.D. holl 435
ACID COMPOUNDS µg/L	BASE/NEUTRAL COMPOUNDS µg/L
21A 2,4,6-trichlorophenol $U \supset$	418 4-bromophenyl phenyl ether (ii)
22A p-chloro-m-cresol NO	428 bis(2-chloroisopropyl)ether un
24A 2-chlorophenol NO	438 bis(2-chloroethoxy)methane (CA
31A 2,4-dichlorophenol AD	52B bexachlorobutadiene MD
34A 2,4-dimethylphenol (A)	538 hexachlorocyclopentadiene An
57A 2-nitrophenol NL	54B isophorone ルウ
58A 4-nitrophenol (A)	2 55B naphthalene 155
59A 2,4-dinitrophenol	2 56B nitrobenzene RD
60A 4,6-dinitro-o-cresol M	618 N-nitrosodimethylamine 10
54A pentachlorophenol [41	62B N-nitrosodiphenylamine no
65A pheno1 //	0 63B N-nitrosodi-n-propylamine ///
	66B bis(2-ethylhexyl)phthalate 116
BASE/NEUTRAL COMPOUNDS	67B butyl benzyl phthalate Min
18 acenaphthene	0 688 di-n-butyl phthalate 200
	69B di-n-octyl phthalate
	70B diethyl phthalate Mil
98 hexachlorobenzene //	71R dimethyl obthalate
	728 benzo(a)anthracene %5
	738 benzo(a)pyrene 200
	748 3,4-benzofluoranthene (A)
	758 benzo(k)fluoranthene Will
	768 chrysene RD
	D 77B acenaphthylene RO
	788 anthracene // // // // // // // // // // // // //
	798 benzo(ghi)perylene 20
	808 fluorene 120
37B 1,2-diphenylhydrazine	81B phenanthrene
	20 82B dibenzo(a,h)anthracene 200
398 fluoranthene	83B indeno(1,2,3-cd)pyrene ///
408 4-chlorophenyl phenyl ether	2) 848 pyrene

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClellan ES ID 821012 Well 433 Aliquot analyzed 3.95,0 Date Received 16500+82 Detector Used: Coulson, EC, Flame, PID Date analyzed 18 oct.1982 Chemist MSB Approved ____ Detection Limits Found (ppb) Aldrin 0.003 40.003 Alpha BHC 0.002 4 0.002 Beta BHC 40.004 0.004 Delta BHC 0.004 40.004 Gamma BHC (lindane) 0.012 0.002 Chlordane 40.04 0.04 DDD (TDE) 40.012 0.012 DDE 40.006 0.006 DDT 40.016 0.016 Dieldrin 40006 0.006 Endosulfan I 40.005 0.005 Endosulfan II 40.01 0.01 Endosulfan sulfate 40.03 0.03 Endrin 0.009 40.009 Heptachlor

ENGINEERING-SCIENCE - BERKELEY LABORATORY

0.002

0.004

0.02

0.40

0.001

0.001

0.002

Heptachlor epoxide

2,4,5 TP (Silvex)

DBCP (Dibromochloro propane)

Methoxychlor

Toxaphene

2,4,D

2,4,5,T

0.013

0.015

40.02

4040

4001

C.001

0.050

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB		ES ID 821012
MW #435	Aliqu	ot Analyzed 3.95 1.1
Date Received 16 Santember 1982  Date Analyzed 18 October 1982	Detector Used: Chemist <u>MSB</u>	EC, Coulson, Flame, PID Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		. `
Aroclor 1260		

Not detected.

### METALS REPORT FORM

Sample ID McClellon		es id <u>82/</u>
well 135		liquot analyzed
Date Received 16 Sept 82	M	ethod Used
Date analyzed	Chemist	Approved

		Detection	Limit (ppb)		
Element	Code	Flane	Flameless	Detected	Limit
Aluminum		500	50	<i>y</i> -	
Antimony	p,c	500	10	<b>410</b>	
Arsenic	p,h,c,d,o		10	<50	
Berium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	5	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	< z0	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<20	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<b>&lt;</b> 20	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	(0.5	
Molybdenum	c	500			
Nickel	р,с,о	40	1	<40	
Potassium		10			
Selenium	p,h,c,d	400	10	<10	
Silicon		10			

		Detection Limit (ppb)			
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	410	
Sodium		10			
Thellium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	410	

codes: p - EPA priority pollutant
 h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

- Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

- 9/13		PRIORITY POLLUTANT DATA	SHEET	
CLIENT		Engineening Science	CAL LAB	NO. 15174-4
CLIENT	I.D	Well # 445		
-		VOLATILES_	ug/L or ug	ı/Kg
	2V	acrolein	.,	
	3V	acrylonitrile	<u> </u>	
	4٧.	benzene	<u> </u>	
	6V	carbon tetrachloride	NO	
	7٧	chlorobenzene		
	107	1,2-dichloroethane	NO.	
	117	1,1,1-trichloroethane	NO	
	137	1,1-dichloroethane	M)	
	_14V	1,1,2-trichloroethane	N	
	150	1,1,2,2-tetrachloroethane	M)	
	_16V	chloroethane	No	
	197	2-chloroethylvinyl ether	NO	
	237	chloroform	NO	
	29 <b>Y</b>	1,1-dichlaroethylene	36	
	30V	1,2-trans-dichloroethylene	(M)	
	32 <b>V</b>	1,2-dichloropropane	ND	
	337	1,3-dichloropropylene	MO	
	38V	ethyl benzene	NO	
	447	methylene chloride		
	45V	methyl chloride	NO	
	<u>46V</u>	methyl bromide	NO	
	479	bromoform	14)	
	487	dichlorobromomethane	NO	
	497	trichlorofluoromethane	<u> </u>	
	_50V_	dichlorodifluoromethane	No	
	517	chlorodibromomethane	no	
	<u>85V</u>	tetrachloroethylene	no	
	_86V	toluene	no	
	877	trichloroethylene	10	ND = Not detected
	_88V	vinyl chloride	no	

#### 5805 POWER INN ROAD BACRAMENTO, CALIFORNIA 95824 (918) 391-5105

9//3 PRIO	RITY POLLUTANT	DATA SHEET	·
CLIENT Comment Science	<u> </u>	CAL LAB NO	
<i>y</i> 0		CLIENT I.D. MERCH	
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/L</b>
21A 2,4,6-trichlorophenol		41B 4-bromophenyl phenyl ether	/ir
22A p-chloro-m-cresol	NO	42B bis(2-chloroisopropyl)ether	:41)
24A 2-chlorophenol	no	43B bis(2-chloroethoxy)methane	1217
31A 2,4-dichlorophenol	n's	52B bexachlorobutadiene	nn
34A 2,4-dimethylphenol	117	53B hexachlorocyclopentadiene	121)
57A 2-nitrophenol	No	54B isophorone	כנטו
58A 4-nitrophenol	צומו	55B naph tha lene	MI
59A 2,4-dinitrophenol	140	568 nitrobenzene	ph)
60A 4,6-dinitro-o-cresol	رنن	618 N-nitrosodimethylamine	1212
64A pentachlorophenol	M	62B N-nitrosodiphenylamine	1110
65A phenol		63B . N-nitrosodi-n-propylamine	KID
		66B bis(2-ethylhexyl)phthalate	(U)
BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	in
18 acenaphthene		688 di-n-butyl phthalate	*
18 acenaphthene 58 benzidine	AD	698 di-n-octyl phthalate	RO
	<u>no</u>	708 diethyl phthalate	NI
8B 1,2,4-trichlorobenzene		718 dimethyl phthalate	40
9B hexachlorobenzene	10	72B benzo(a)anthracene	an
12B hexachloroethane	10	738 benzo(a)pyrene	1617
188 bis(2-chloroethyl)ether	11)	748 3,4-benzofluoranthene	in
208 2-chloronaphthalene	<u> </u>	758 benzo(k)fluoranthene	120
258 1,2-dichlorobenzene	ND	76B chrysene	Nis
26B 1,3-dichlorobenzene	(II)	778 acenaphthylene	Ris
27B 1,4-dichlorobenzene	10	788 anthracene	IN
288 3,3'-dichlorobenzidine	$R_1$	798 benzo(ghi)perylene	
35B 2,4-dinitrotoluene	no	80B fluorene	ND AD
36B 2,6-dinitrotoluene	121)	81B phenanthrene	
378 1,2-diphenylhydrazine (as azobenzene)	MI	82B dibenzo(a,h)anthracene	713
. 398 fluoranthene		83B indeno(1,2,3-cd)pyrene	AD
408 4-chlorophenyl phenyl ether	(4)	9AR numana	NO

#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID McClellan ES ID <u>821010</u> Well 445 Aliquot analyzed 350,1 Date Received 16 Sept 82 Detector Used: Coulson, EC, Flame, PID Date analyzed 18 Oct. 1982 Chemist MSB Approved Detection Limits Found (ppb) Aldrin 4a03 0.003 Alpha BRC 40,002 0.002 Beta BRC 40.004 0.004 Delta BHC 40.004 0.004 Gamma BHC (lindame) 0.002 40.002 Chlordane 0.04 L004 DDD (TDE) 0.012 40.012 DDE 40.006 0.006 DDT 0.016 20.016 Dieldrin 40.006 0.006 Endosulfan I 40005 0.005 Endosulfan II 400 0.01 Endosulfan sulfate 40.03 0.03 Endrin 4 0.009 0.009 Heptachlor 0.002 4 0.002 Heptachlor epoxide 40.004 0.004 Methoxychlor 0.02 4002 Toxaphene 40.40 0.40 2,4,D 4.001 0.001 2,4,5,T 0.001 2.001 2,4,5 TP (Silvex) 0.002 2.002 DBCP (Dibromochloro propane)

ENGINEERING-SCIENCE - BERKELEY LABORATORY

13 miles

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID 821010				
MW #445	Aliquot Analyzed 3.50 // L				
Date Received 16 September 1982  Date Analyzed 18 October 1992	Detector Used: Chemist <u>MSB</u>	EC, Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260		····			

Not detected.

### METALS REPORT FORM

Sample I		le Clel <del>21016</del>	
		445	
Date Rec	eived	16 Se	pt 82

ES ID <u>821010</u>
Aliquot analyzed _____

Date analyzed

Chemist _____ Approved ____

			n Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	<	
Arsenic	p,h,c,d,o	***	10	<b>&lt;5</b> 0	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>49</b> < 5	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	<2o	
Chromium (+6)	c		10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	<20	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	<b>∠</b> 20	
Lithium		50			
Magnesium		1	990		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	<o.5< td=""><td></td></o.5<>	
Molybdenum	c	500	700		
Nickel	p,c,o	40	1	< 40	
Potessium		10			
Selenium	p,h,c,d		10	<10	•
Silicon		10			

MW 445 (Continued)

Detection Limit (ppb)						
Element	Code	Flame	Flameless	Detected	Limit	
Silver	p,h,c,d,o	50	1	< <del>50</del>		
Sodium	_	10				
Thellium	p,c,		-			
Tin						
Vanadium	c					
Zinc	p,c,d,o	5	0.05	15		

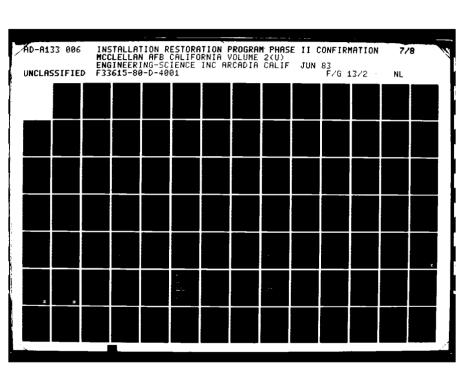
codes: p - EPA priority pollutant

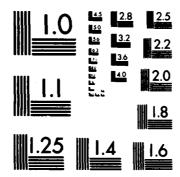
h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California





MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

THE PROPERTY OF SECRETARY (BELLINGSHIE & SECRETARY STATES

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

91.4

CLIENT		Engineeming Science Well #455	CAL LAB N	o. <u>15774-5</u>
CLIENT	1.0.	Well #455		
		<u>VOLATILES</u>	vall or val	Ka
				13
	27	acrolein	NO	
	<u>3V</u>	acrylonitrile	NO	
	44	benzene	NO	
	_6V	carbon tetrachloride	110	
	_7V	chlorobenzene	NO	
	_10V	1,2-dichloroethane	NO.	
	117	1,1,1-trichloroethane	n	
	13V	1,1-dichloroethane	NO	
•	147	1,1,2-trichloroethane		
	15V	1,1,2,2-tetrachloroethane	MD	
	16V	chloroethane	MD	
	197	2-chloroethylvinyl ether	NO	
	237	chloroform	M	
	297	1,1-dichloroethylene	M	
		1,2-trans-dichloroethylene	NO	
	32 <b>y</b>	1,2-dichloropropane	NO	
	337	1,3-dichloropropylene		
	387	ethylbenzene	no	
	447	methylene chloride	NO	
	_45V	methyl chloride	NO	
	46V	methyl bromide	10	
	47V	bramoform	NO	
	487	dichlorobromomethane	no	•
	49V	trichlorofluoromethane	no	~
	50V	dichlorodifluoromethane		
		chlorodibromomethane	NO	
	51V		<u>no</u>	
	85V	tetrachloroethylene	<u>no</u>	
		toluene	<u></u>	ND = Not detected
	<u>87Y</u>	trichloroethylene		- NAP REFEREN
	_88V	vinyl chloride	ND	

#### SASS POWER INN ROAD SACRAMENTO, CALIFORNIA 95824 (918) 391-6105

G. C.		CAL LAB NO	74-5
ENT Englishing Sicence		CLIENT I.D. wel	O# 45.
ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μg/l
21A 2,4,6-trichlorophenol	NO.	418 4-bromophenyl phenyl ethe	r /
22A p-chloro-m-cresol	NO	42B bis(2-chloroisopropyl)eth	er /
24A 2-chlorophenol		438 bis(2-chloroethoxy)methan	e /3:
31A 2,4-dichlorophenol	NO	52B bexachlorobutadiene	15.
34A 2,4-dimethylphenol	M)	538 hexachlorocyclopentadiene	/21
57A 2-nitrophenol	NI	54B isophorone	رفين
58A 4-nitrophenol	<i>(U)</i>	55B naphthalene	fi.
59A 2,4-dinitrophenol	M	56B nitrobenzene	14
60A 4,6-dinitro-o-cresol	no	61B N-nitrosodimethylamine	12
64A pentachlorophenol	no	628 N-nitrosodiphenylamine	12
65A pheno1	ND	63B .N-nitrosodi-n-propylamine	· /:
		o6B bis(2-ethylhexyl)phthala	te /
BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	11
1B acenaphthene		688 di-n-butyl phthalate	r
58 benzidine		69B di-n-octyl phthalate	/1
88 1,2,4-trichlorobenzene	N)_	708 diethyl phthalate	15
9B hexach1orobenzene	<i>(4)</i>	718 dimethyl phthalate	n
12B hexachloroethane	NI)	72B benzo(a)anthracene	12
188 bis(2-chloroethyl)ether	NO	738 benzo(a)pyrene	/3
208 2-chloronaphthalene	NO	74B 3,4-benzofluoranthene	<u></u>
258 1,2-dichlorobenzene	NO	75B benzo(k)fluoranthene	<u>/:</u>
268 1,3-dichlorobenzene	M	768 chrysene	1.
278 1,4-dichlorobenzene	10	77B acenaphthylene	<i>j</i> :
288 3,3'-dichlorobenzidine	no	788 anthracene	14
35B 2,4-dinitrotoluene	NO	798 benzo(ghi)perylene	111
36B 2,6-dinitrotoluene	M	808 fluorene	121
378 1,2-diphenylhydrazine	<del></del>	818 phenanthrene	142
(as azobenzene)	1-17	828 dibenzo(a,h)anthracene	
398 fluoranthene	1.0	83B indeno(1,2,3-cd)pyrene -	
408 4-chlorophenyl phenyl ether	140	848 pyrene	PL

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McClellan		ES ID <u>67611</u>		
Well 453	Aliquot analyzed 170			
Date Received 16 Sept 82	Detector Used:	Coulson, EC, Flame, PID		
Date analyzed   Nov., 1982	Chemist MS	Approved		
	Detection Limits	Found (ppb)		
Aldrin	0.003	40.003		
Alpha BHC	0.002	40.002		
Beta BRC	0.004	L0004		
Delta BHC	0.004	0.121		
Gamma BHC (lindane)	0.002	· <b>0.03</b> 8.		
Chlordane	0.04	40.04		
DOD (TDE)	0.012	<b>LAOIZ</b>		
DOE	0.006	L0.006		
DDT	0.016	20.016		
Dieldrin	0.006	L0.006		
Endosulfan I	0.005	40.005		
Endosulfan II	0.01	LO.01		
Endosulfan sulfate	0.03	4a.03		
Endrin	0.009	40.009		
Heptachlor	0.002	10,002		
Heptachlor epoxide	0.004	L0.004		
Methoxychlor	0.02	Laor		
Toxaphene	0.40	4040		
2,4,D	0.001	∠.001		
2, 4, 5, T	0.001	<.001		
2,4,5 TP (Silvex)	0.002	0.051		
DBCP (Dibromochloro propane)				

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellan AFB	ES ID 82/0/1				
MW #455	Aliquot Analyzed 1.70 u.L.				
Date Received 16 September 1982  Date Analyzed / Kovember 1982	Detector Used: Chemist MSB	: EC, Coulson, Flame, PH			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroelor 1254_					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Element	Code	Detection L Flame	imit (ppb) Flameless	Detected	Limit
Date analyzed	· · · · · · · · · · · · · · · · · · ·	Chemist		Approved	
Date Received	Sept 82			Method Used	· <del></del>
w	ll 453			Aliquot enalyzed	
Sample ID Mc	Clellan			ES ID	821011

Element	Code	Detection Flame	rlameless	Detected	Limit
Aluminum	<del> </del>	500	50		
Antimony	p,c	500	10	<	<del></del>
Arsenic	p,h,c,d,o		10	< <i>5</i> 0	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<b>&lt;</b> 5	
Calcium		50	-	<del></del>	
Chronium (+3)	p,h,c,d,o	20	1	<b>∠20</b>	
Chromium (+6)	c	***	10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	420	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	<20	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	40.5	
Molybdenum	C	500			77 1
Nickel	p,c,o	40	1	<40	·
Potassium		10			
Selenium	p,h,c,d		10	<10	
Silicon		10	***		· · · · · · · · · · · · · · · · · · ·

### MW 45 S (Continued)

		Detection Limit (ppb)			
Element	Code	Flame	flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	410 450	
Sodium		10			· · · · · · · · · · · · · · · · · · ·
Thellium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<10	

codes: p - EPA priority pollutant h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/29

CLIENT	En	aineering-Science	CAL LAB NO. 15	245-7
CLIENT	1.0.	We11 #46S	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	- 
	_			
· · <del>-</del> .		VOLATILES	ug/L) or ug/Kg	
	24	acrolein	ND	
	34	acrylomitrile	ND	
	44	benzene .	ND	
	6 <b>V</b>	carbon tetrachloride	ND	
	<b>7</b> V	ch1orobenzene	ND	
	100	1,2-dichloroethane	ND	
	117	1,1,1-trichloroethane	ND	
	137	1,1-dichloroethane	ND ·	
	147	1,1,2-trichloroethane	ND	
;	15V	1,1,2,2-tetrachloroethane	ND	
	164	chloroethane	ND .	
	190	2-chloroethylvinyl ether	ND	
	23V	chloroform	5	•
	297	1,1-dichlaroethylene	ND	
	30V	1,2-trans-dichloroethylene	, ND	
	327	1,2-dichloropropane	ND	•
-	337	1,3-dichloropropylene	ND	
	387	ethyl benzene	ND	
	447	methylene chloride	ND	
• .	457	methyl chloride	ND	
	467	methyl bromide	ND	
	474	branoform	ND	
	487	dichlorobromomethane.	ND	
	<u>49V</u>	trichlorofluoromethane	ND	
	_50V	dichlorodifluoromethane	ND	
	514	chlorodibromomethane	ND	
	85V	tetrachloroethylene	ND	
	86V	toluene	ND	
	877	trichloroethylene	ND NO =	Not detected
	88V	vinyl_chloride	ND ND	

### SACRAMENTO, CALIFORNIA 94824 (814) 381-5105

9/29

ENT End	rineering-Science		CAL LAB NO15245-7	
	the second		CLIENT I.D. #46S	
ACIO	COMPOUNDS	ug/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2,4,6-	trichlorophenol	ND	418 4-bromophenyl phenyl ether	NE.
22A p-chlo	ro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	N[
24A 2-ch1c	rophenol	ND	43B bis(2-chloroethoxy)methane	NO
31A 2,4-di	chlorophenol	ND	52B bexachlorobutadiene	NI NI
34A 2,4-d	methylphenol	ND	538 hexachlorocyclopentadiene	N
57A 2-n1t	rophenol	ND	548 isophorone	N!
58A 4-nit	rophenol	NO	558 naphthalene	N
59A 2,4-d	initrophenol	NO	56B nitrobenzene	N
60A 4,6-d	initro-o-cresol	ND	618 N-nitrosodiwethylamine	N
64A penta	ch l oropheno l	ND	628 N-nitrosodiphenylamine	N
65A pheno		ND	63B , N-nitrosodi-n-propylamine	N
		₹ •	668 bis(2-ethylhexyl)phthalate	N
BAS	E/NEUTRAL COMPOUNDS	•	678 butyl benzyl phthalate	N
18 acenap	hthene	ND _	688 di-n-butyl phthalate	N
58 benzid		ND	698 di-n-octyl phthalate	N
. —————————————————————————————————————	trichlorobenzene	ND	708 diethyl phthalate	N
	lorobenzene	ND _	718 dimethyl phthalate	N
128 hexach		ND _	72B benzo(a)anthracene	N.
	chloroethyl)ether	ND	738 benzo(a)pyrene	N
	ronaph tha lene	ND	74B 3,4-benzofluoranthene	N
	ch l orobenzene	ND	75B benzo(k)fluoranthene	N
	chlorobenzene	ND	768 chrysene	N
	chlorobenzene	ND	778 acenaphthylene	N
	ichlorobenzidine	ND	788 anthracene	N
	ni trotol yene	ND ND	798 benzo(ghi)perylene	N
	ni trotoluene	ND _	80B fluorene	N
	phenylhydrazine	II	818 phenanthrene	N
	obenzene)	ND ND	82B dibenzo(a,h)anthracene	N
398 fluore	nthene	ND	838 indeno(1,2,3-cd)pyrene	N
408 4-ch1c	rophenyl phenyl ether	ND _	848 pyrene	N

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Me Chillan AFB
WELL# 465

Date Received 10/1/82

ES ID 82/052

P
Aliquot analyzed 420ul

Detector Used: Coulson, EC, Flame, PID

Date analyzed 18 Oct 1992	Chemist MSB	Approved	
	Detection Limits	Found (ppb)	
Aldrin	0.003	2003	
Alpha BHC	0.002	< 0.002	
Beta BRC	0.004	L0.004	
Delta BRC	0.004	40.004	
Gamma BHC (lindane)	0.002	0016	
Chlordane	0.04	4004	
DOD (TOE)	0.012	20012	
DDE	0.006	20.006	
DOT	0.016	40.016	
Dieldrin	0.006	40,000	
Endosulfan I	0.005	40.005	
Endosulfan II	0.01	2001	
Endosulfan sulfate	0.03	20.03	
Endrin	0.009	40.009	
<b>He</b> ptachlor	0.002	40.002	
Heptachlor epoxide	0.004	- 40004	
Methoxychlor	0.02	4002	
Toxaphene	0.40	4040	
2,4,D	0.001	∠.001	
2, 4, 5, T	0.001	4.001	
2,4,5 TP (Silvex)	0.002	<.002	
DBCP (Dibromochloro propane)			

### AROCLOR (PCB) REPORT FORM

Sample ID Mr. Clellan AFB	ES ID 82/052				
. MW # 465	Aliquot Analyzed 4.20 pl				
Date Analysed 18 October 1982	Detector Used: Chemist MSA	EC, Coulson, Flame, PID Approved			
<u> </u>	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254		· · · · · · · · · · · · · · · · · · ·			
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Sample ID 77	165 465	mAFB .		Aliquot analyzed	82105
Date Received				Method Used	
Date analyzed		Chenis			
Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Aluminum	<del></del>	500	50		
Antimony	p,c	500	10	410	
Arsenic	p,h,c,d,o		10	450.	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	40	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	450	
Chromium (+6)	c		10		
Cobalt		50	1		
^opper	p,c,d,o	20	1	450	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	18	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o	***	0.5	<0.5	
Molybdenum	C	500	***		
Nickel	p,c,o	40	1	440	
Potassium		10	***		
Selenium	p,h,c,d		10	40	
Silicon		10			

64/18

1. 14 16 17 18 18 18 18

			Detection Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	۷ 50	
Sodium		10			
Thallium	р,с,		,		
Tin					
Vanadium	С				
Zinc	p,c,d,o	5	0.05	450	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

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9/29

### PRIORITY POLLUTANT DATA SHEET

CLIENT I.O. Hell #475  VOLATILES  VOLOTO UP J/Kg  ND  ND  VOLOTO UP J/C V/C V/C V/C V/C V/C V/C V/C V/C V/C V	CLIENT	Eng	ineering-Science	CAL LAB NO. 15245-8
acrolein ND acrylonitrile ND benzene ND carbon tetrachloride ND loy chlorobenzene ND loy 1,2-dichloroethane ND liy 1,1,1-trichloroethane ND liy 1,1,2-trichloroethane ND liy 1,1,2-trichloroethane ND liy 1,1,2-trichloroethane ND loy 1,2-tetrachloroethane ND loy 1,1,2-tetrachloroethane ND loy chloroethane ND loy chloroethylvinyl ether ND loy chloroethylvinyl ether ND loy chloroform ND loy l,2-dichloroethylene ND l,2-dichloropropene ND l,2-dichloropropene ND l,2-dichloropropene ND l,2-dichloropropene ND l,2-dichloropropene ND law ethylenechloride ND ley methyl chloride ND ley methyl chloride ND ley methyl chloride ND ley dichloroform ND ley dichloroform ND ley dichloroform ND ley dichlorofiluoromethane ND ley chlorodifluoromethane ND	CLIENI	r 1.0	Well #475	
acrylonitrile ND  4V benzene ND  6V carbon tetrachloride ND  7V chlorobenzene ND  10V 1,2-dichloroethane ND  11V 1,1,1-trichloroethane ND  13V 1,1-dichloroethane ND  14V 1,1,2-trichloroethane ND  15V 1,1,2,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  23V chloroform ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropone ND  33V 1,3-dichloropropole ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  48V dichlorobromomethane ND  48V dichloroform ND  48V dichlorofluoromethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND			VOLATILES	ug/l or ug/Kg
4V benzene ND  6V carbon tetrachloride ND  7V chlorobenzene ND  10V 1,2-dichloroethane ND  11V 1,1,1-trichloroethane ND  13V 1,1-dichloroethane ND  14V 1,1,2-trichloroethane ND  15V 1,1,2,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  34V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichloropromomethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  85V tetrachloroethylene ND		_2 <b>y</b>	acrolein	ND
6V carbon tetrachloride ND  7V chlorobenzene ND  10V 1,2-dichloroethane ND  11V 1,1,1-trichloroethane ND  13V 1,1-dichloroethane ND  14V 1,1,2-trichloroethane ND  15V 1,1,2-tetrachloroethane ND  16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,2-dichloropropane ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  48V dichlorobromomethane ND  48V dichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND		_3v	acrylonitrile	ND
7V         chlorobenzene         ND           10V         1,2-dichloroethane         ND           11V         1,1,1-trichloroethane         ND           13V         1,1-dichloroethane         ND           14V         1,1,2-trichloroethane         ND           15V         1,1,2-trichloroethane         ND           16V         chloroethane         ND           19V         2-chloroethylvinyl ether         ND           23V         chloroform         ND           30V         1,2-dichloroethylene         ND           30V         1,2-trans-dichloroethylene         ND           32V         1,2-dichloropropane         ND           33V         1,3-dichloropropalene         ND           38V         ethylbenzene         ND           44V         methyl chloride         ND           45V         methyl chloride         ND           45V         methyl bromide         ND           49V         trichlorofluoromethane         ND           50V         dichlorodifluoromethane         ND           50V         chlorodibromomethane         ND           85V         tetrachloroethylene         ND		44	benzene	ND
1,2-dichloroethane	•	64	carbon tetrachloride	ND
11y 1,1-trichloroethane ND 13y 1,1-dichloroethane ND 14y 1,1,2-trichloroethane ND 15y 1,1,2,2-tetrachloroethane ND 16v chloroethane ND 19v 2-chloroethylvinyl ether ND 23v chloroform ND 23v 1,1-dichloroethylene ND 30v 1,2-trans-dichloroethylene ND 32v 1,2-dichloropropane ND 33v 1,3-dichloropropylene ND 44v methylene chloride ND 45v methyl chloride ND 46v methyl bromide ND 47v bromoform ND 48v dichlorobromomethane ND 50v dichlorodifluoromethane ND 51v chlorodifluoromethane ND 85v tetrachloroethylene ND		77	ch l orobenzene	ND
13y 1,1-dichloroethane ND 14y 1,1,2-trichloroethane ND 15y 1,1,2,2-tetrachloroethane ND 16y chloroethane ND 19y 2-chloroethylvinyl ether ND 23y chloroform ND 29y 1,1-dichloroethylene ND 30y 1,2-trans-dichloroethylene ND 32y 1,2-dichloropropane ND 33y 1,3-dichloropropane ND 44y methylene chloride ND 45y methyl chloride ND 46y methyl bromide ND 47y bromoform ND 48y dichlorofromomethane ND 50y dichlorofluoromethane ND 50y chlorodifluoromethane ND 51y chlorodifluoromethane ND 85y tetrachloroethylene ND		104	1,2-dichloroethane	ND .
149 1,1,2-trichloroethane ND 159 1,1,2,2-tetrachloroethane ND 169 chloroethane ND 199 2-chloroethylvinyl ether ND 230 chloroform ND 290 1,1-dichloroethylene ND 300 1,2-trans-dichloroethylene ND 321 1,2-dichloropropane ND 322 1,2-dichloropropane ND 330 1,3-dichloropropylene ND 440 methylene chloride ND 450 methyl chloride ND 450 methyl bromide ND 460 methyl bromide ND 470 bromoform ND 481 dichlorobromomethane ND 500 dichlorodifluoromethane ND 510 chlorodifluoromethane ND 510 chlorodifluoromethane ND 850 tetrachloroethylene ND		119	1,1,1-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane ND 16V chloroethane ND 19V 2-chloroethylvinyl ether ND 23V chloroform ND 23V chloroform ND 30V 1,2-trans-dichloroethylene ND 32V 1,2-dichloropropane ND 32V 1,2-dichloropropane ND 33V 1,3-dichloropropylene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl bromide ND 47V bromoform ND 48V dichloropromomethane ND 50V dichlorofluoromethane ND 50V dichlorofluoromethane ND 51V chlorodifluoromethane ND 85V tetrachloroethylene ND		137	1,1-dichloroethane	ND '
16V chloroethane ND  19V 2-chloroethylvinyl ether ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorodifluoromethane ND  51V chlorodifromomethane ND  85V tetrachloroethylene ND		144	1,1,2-trichloroethane	ND
23V chloroform ND  23V chloroform ND  29V 1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND	• • •	150	1,1,2,2-tetrachloroethane	ND
23V chloroform ND 29V 1,1-dichloroethylene ND 30V 1,2-trans-dichloroethylene ND 32V 1,2-dichloropropane ND 33V 1,3-dichloropropylene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl bromide ND 47V bromoform ND 48V dichlorobromomethane ND 50V dichlorodifluoromethane ND 51V chlorodibromomethane ND 85V tetrachloroethylene ND		164	chloroethane	ND
1,1-dichloroethylene ND  30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorofruoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND		194	2-chloroethylvinyl ether	ND
30V 1,2-trans-dichloroethylene ND  32V 1,2-dichloropropane ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND		237	chloroform	ND
32V 1,2-dichloropropene ND  33V 1,3-dichloropropylene ND  38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND		297	1,1-dichloroethylene	ND
33V 1,3-dichloropropylene ND 38V ethylbenzene ND 44V methylene chloride ND 45V methyl chloride ND 46V methyl bromide ND 47V bromoform ND 48V dichlorobromomethane ND 50V dichlorofluoromethane ND 51V chlorodifluoromethane ND 85V tetrachloroethylene ND	-	_30V	1,2-trans-dichloroethylene	_ND
38V ethylbenzene ND  44V methylene chloride ND  45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  50V dichlorofluoromethane ND  51V chlorodifluoromethane ND  85V tetrachloroethylene ND  86V toluene ND		_32 <b>Y</b>	1,2-dichloropropane	ND ·
449 methylene chloride ND 459 methyl chloride ND 469 methyl bromide ND 479 bromoform ND 489 dichlorobromomethane ND 499 trichlorofluoromethane ND 509 dichlorodifluoromethane ND 519 chlorodibromomethane ND 859 tetrachloroethylene ND		_33V	1,3-dichloropropylene	ND
45V methyl chloride ND  46V methyl bromide ND  47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND		_38V	ethylbenzene	ND
46V methyl bromide ND 47V bromoform ND 48V dichlorobromomethane ND 49V trichlorofluoromethane ND 50V dichlorodifluoromethane ND 51V chlorodibromomethane ND 85V tetrachloroethylene ND		444	methylene chloride	ND
47V bromoform ND  48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND		_45V	methyl chloride	<u>ND</u>
48V dichlorobromomethane ND  49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND		467	methyl bromide	ND
49V trichlorofluoromethane ND  50V dichlorodifluoromethane ND  51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND		_47¥	bramoform	ND
50V dichlorodifluoromethane ND 51V chlorodibromomethane ND 85V tetrachloroethylene ND 86V toluene ND		487	dichlorobromomethane	ND
51V chlorodibromomethane ND  85V tetrachloroethylene ND  86V toluene ND		497	trichlorofluoromethane	ND.
85V tetrachloroethylene ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		_50Y	dichlorodifluoromethane	ND
86V taluene ND		_517	chlorodibromomethane	ND
NO a Note of		_85V	tetrachloroethylene	ND
87V trichloroethylene ND ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO		86V	taluene	
كالمنطقة والمنطون والماري والمراور والمراور والمراور والمراور والمراور والمراور والمراور والمراور والمراور والمراور		_87 <b>V</b>	trichloroethylene	ND NO - Not de
88V vinyl chloride : ND		_88V	vinyl chloride	ND

- Not detected

#### SOS POWER INN ROAD SACRAMENTO, CALIFORNIA, \$5624 (B16) 261-6105

9/29

NT _	Engineering-Science	· .	CAL LAB NO. 15245-8  CLIENT I.D. Well #47S	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	ug/L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22A	p-chloro-m-cresol	ND	428 bis(2-chloroisopropyl)ether	ND
24A	2-chlorophenol	ND	438 bis(2-chloroethoxy)methane	ND
31A	2,4-dichlorophenol	ND	52B bexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	538 hexachlorocyclopentadiene	ND
57A	2-nitrophenol	ND	54B isophorone	ND
58A	4-nitrophenol	ND	55B naphthalene	ND
59A	2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A	4,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine	ND
64A	pentach lorophenol	ND	628 N-nitrosodiphenylamine	ND
65A	phenol	ND	638 , N-nitrosodi-n-propylamine	ND
•			66B bis(2-ethylhexyl)phthalate	ND
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	ND
18	acenaphthene	ND	688 di-n-butyl phthalate	ND
58	benzidine	ND	698 di-n-octyl phthalate	ND
88	1,2,4-trichlorobenzene	ND	70B diethyl phthalate	ND
98	hexach1orobenzene	ND	718 dimethyl phthalate	ND
	hexach l groethane	ND	728 benzo(a)anthracene	ND
	bis(2-chloroethyl)ether	ND	73B benzo(a)pyrene	ND
	2-chloronaphthalene	ND	74B 3,4-benzofluoranthene	ND
	1,2-dichlorobenzene	ND	75B benzo(k)fluoranthene	ND
	1,3-dichlorobenzene	ND	768 chrysene	ND
	1,4-dichlorobenzene	ND	778 acenaphthylene	ND
	3,3'-dichlorobenzidine	ND	788 anthracene	ND
	2,4-dinitrotoluene	ND	798 benzo(ghi)perylene	ND
_	2,6-dinitrotoluene	ND	80B fluorene	ND
	1,2-diphenylhydrazine	·	818 phenanthrene	ND
	(as azobenzene)	ND	828 dibenzo(a,h)anthracene	ND
308	fluoranthene	ND_	838 indeno(1,2,3-cd)pyrene	ND

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID McChellon AFB

ES 10 82/053

WELL# 475

. Aliquot analyzed 1.45,0

Date Received 10/1 82

Detector Used: Coulson, EC, Flame, PID

Date analyzed 2 Not, 1982	Chemist MSB	Approved	
	Detection Limits	Pound (ppb)	
Aldrin	0.003	40.003	
Alpha BHC	0.902	40.002	
Beta BRC	0.004	40.004	
Delta BHC	0.004	40.004	
Gamma BHC (lindane)	0.002	0.041	
Chlordane	0.04	40.04	
ODD (TDE)	0.012	60.012	
DOE	0.006	40.006	
DDT	0.016	20.016	
Dieldrin	0.006	40.006	
Endosulfan I	0.005	40.005	
Endosulfan II	0.01	4001	
Endosulfan sulfate	0.03	10.03	
Endrin	0.009	40.009	
Heptachlor	0.002	40.002	
Heptachlor epoxide	0.004	40.004	
Methoxychlor	0.02	4002	
Toxaphene	0.40	4040	
2,4,D	0.001	Z.001	
2, 4, 5, T	0.001	<.001	
2,4,5 TP (Silvex)	0.002	0.196	
OBCP (Dibromochloro propane)		-	

ENGINEERING-SCIENCE - BERKELEY LABORATORY

-3-

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Clellon AFB  MW # 47 S	Aliquot Analyzed 1.45 u.L.				
Date Received / October 1982	Detector Used: Chemist <u>NSB</u>	EC, Coulson, Flame, PID Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232		_			
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Not detected.

### METALS REPORT FORM

Sample ID 27		AFB		ES ID Aliquot analyzed	82105
Date Received				Method Used	
_		Chemis			
Element	Code	Detection Flame	Limit (ppb) Flameless	Detegted	Limit
Aluminum		500	50		
Antimony	p,c	500	10	410	
Arsenic	p,h,c,d,o		10	490	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	<u> </u>	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	450	
Chromium (+6)	c		10	<del> </del>	
Cobalt		50	1		
Copper	p,c,d,o	20	1	450	
Go1d	<del></del>	100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	17	
Lithium	<del></del>	50		<u> </u>	
Magnesium		1	<b>489</b>		····
Manganese	d	10	0.5		
Mercury	p,h,c,d,o		0.5	<0.5	<del> </del>
Molybdenus	c	500			
Nickel	p,c,o	40	1	440	
Potassium		10			
Selenium	p,h,c,d		10	410	
Silicon		10	4		<del></del>

45

## 821053(cont)

Element	Code	Detection Flame	rlameless	Detected	Limit
Silver	p,h,c,d,o	50	1	450	
Sodium		10			
Thellium	p,c,				
Tin					
Venedium	c			-	
Zinc ···	p,c,d,o	5	0.05	420	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

9/29

	- 12	و المرابعة المراكبين المرابعة المرابعة المرابعة والمرابعة والمرابعة والمرابعة والمرابعة والمرابعة والمرابعة وا والمرابعة والمرابعة		
CLIENT	Enai	neering-Science	CAL LAB NO.	15245-9
CLIENT				-
	•			
		VOLATILES	ug/Lor ug/Kg	l .
-	_2Y	acrolein	ND	•
	3٧	acrylonitrile	ND	
	44	benzene	ND	
	_6V	carbon tetrachloride	ND	
	7٧	chlorobenzene	NO	
	104	1,2-dichloroethane	ND	
	114	1,1,1-trichloroethane	ND	
	134	1,1-dichloroethane	ND '	
	144	1,1,2-trichloroethane	ND.	
	_15V	1,1,2,2-tetrachloroethane	ND	
	164	chlaraethane	ND	
	197	2-chloroethylvinyl ether	ND	•
	_23Y	chloroform	ND	
	_29V	1,1-dichlaroethylene	ND.	
	304	1,2-trans-dichloroethylene	ND	
	_32V	1,2-dichloropropane	ND	
	_33V	1,3-dichloropropylene	ND	
	_38V	ethylbenzene	ND	
	444	methylene chloride	ND	
	45V	methyl chloride	ND	
	467	methyl bromide	<u> </u>	
	474	bramoform	ND	
	487	dichlorobromomethane	ND	~
	494	trichlorofluoromethane	ND	
	<u>50v</u>	dichlorodifluoromethane	ND	
	_517	chlorodibromomethane	ND	
	85V	tetrachloroethylene	ND	
	_86V	toluene	ND	<b>K k</b>
	<u>87Y</u>	trichloroethylene	ND N	D = Not detected
	_88Y	vinyl chloride	<u>ND</u>	

#### SEES FOWER HIM ROAD BACRAMENTO, CALIFORNIA \$5824 (\$10) 381-510\$

9/29

	1/29	Lutautti Laccatumi		
IENT .	Engineering-Science		CAL LAB NO. 15245-9  CLIENT I.D. Well #49S	
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	μ <b>g/</b> L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
22A		ND	428 bis(2-chloroisopropyl)ether	ND
244		ND	438 bis(2-chloroethoxy)methane	ND
31A		ND	52B bexachlorobutadiene	ND
344		DM	53B hexachlorocyclopentadiene	ND
57A		ND	54B isophorone	ND
58A		ND	55B naphthalene	ND
59A		ND	568 nitrobenzene	ND
60A		ND	618 N-nitrosodiwethylamine	ND
54A		ND	62B N-nitrosodiphenylamine	NE
65A	phenol	ND	63B .N-nitrosodi-n-propylamine	NC
			668 bis(2-ethylhexyl)phthalate	NC
	BASE/NEUTRAL COMPOU	JNDS_	678 butyl benzyl phthalate	NC
18	acenaph thene	. ND	688 di-n-butyl phthalate	N[
58	benzidine	ND	69B di-n-octyl phthalate	N
88	1,2,4-trichlorobenzene	ND	70B diethyl phthalate	N
98	hexach l grobenzene	ND	718 dimethyl phthalate	N[
	hexachloroethane	ND	728 benzo(a)anthracene	N
	bis(2-chloroethyl)ether		738 benzo(a)pyrene	
	2-chloronaphthalene	ND	748 3,4-benzofluoranthene	N
	1,2-dichlorobenzene	ND	758 benzo(k)fluoranthene	N
	1,3-dichlorobenzene	ND	76B chrysene	N
	1,4-dichlarobenzene	ND	77B acenaphthylene	N
	3,3'-dichlorobenzidine	ND	788 anthracene	N
351	3 2,4-dinitrataluene	· ND	798 benzo(ghi)perylene	N
_	8 2,6-dinitrotoluene	ND	80B fluorene	N
	B 1,2-diphenylhydrazine		818 phenanthrene	N
-	(as azobenzene)	NO	82B dibenzo(a,h)anthracene	N
	8 fluorenthene	ND	83B indeno(1,2,3-cd)pyrene	N
40	8 4-chlorophenyl phenyl	ether ND	848 pyrene	NI

### PESTICIDE/HERBICIDE REPORT FORM

ete Received 10/1/82	Detector Used:	Coulson, EC, Flame, PII
Date analyzed 10/18/82	Chemist MSB	Approved
	Detection Limits	Found (ppb)
ldrin	0.003	20.003
lpha BHC	0,002	20.002
eta BRC	0.004	L0.004
Delta BRC	0.004	40.004
Samma BHC (lindane)	0.002	20.002
hlordane	0.04	L0.04
DOD (LDE)	0.012	40.012
008	0.006	
DOT	0.016	£0016
Dieldrin	0.006	40.006
Indosulfan I	0.005	20005
Indosulfan II	0.01	20.01
Modosulfan sulfate	0.03	L0.03
endrin	0.009	£0.009
Septachlor	0.002	40.002
Heptachlor epoxide	0.004	40.004
Methoxychlor	- 0.02	L0.02
Toxaphene	0.40	L0.40
2,4,D	0.001	<.001
2,4,5,1	0.001	<.001
2,4,5 TP (Silvex)	0.002	Z00.>
DBCP (Dibromochloro propane)		

### AROCLOR (PCB) REPORT FORM

Sample ID Mc Cle/lan AFB  MW# 495	Aliquot Analyzed 4.35 p. L				
Date Received / October 1982	Detector Used:	EC, Coulson, Flame, PII Approved			
	Detection Limits (ppb)	Found (ppb)			
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242	·				
Aroclor 1248					
Aroclor 1254					
Araclar 1260					

Not detected.

#### METALS REPORT FORM

	c Challon	779		E3 1D	02/050
Wen # 4		•		Aliquot analyzed	
Date Received	10/1/82	•	. :	Method Used	
Date analyzed		Chemis	st	Approved	
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected ug/	Limit
Aluminum		500	50		<del></del>
Antimony	p,c	500	10	410	
Arsenic	p,h,c,d,o		10	450.	
Berium	h,c,d	1,000	5		
Beryllium	р,с,				
Cadmium	p,h,c,d,o	5	0.1	<10	
Calcium		50			- co
Chromium (+3)	p,h,c,d,o	20	1	<b>&lt; 50</b>	
Chromium (+6)	c		10		To a suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the suppose to the s
Cobalt		50	1		
Copper	p,c,d,o	20	1	<b>&lt;50</b>	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	16	
Lithium		50	~~~		
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	20.5	
Molybdenum	c	500			
Nickel	p,c,o	40	1	440	
Potassium		10	400		
Selenium	p,h,c,d	44-	10	410	
Silicon		10	¢= 4		

# 821050(cout)

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	450	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	<i>۷20</i>	

codes: p - EPA priority pollutant

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water o - Ocean waters of California

engineering-science – Berkeley Lab	LABO	ABORA'	TORY
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5895 Power Inn Road Sacramento. California 95824 (916)-381-5105

9/27

127				
CLIENT	Eng	ineerina-Science	CAL LAB NO.	15245-4
CLIENT	I.D.	Well #38D		
	<b>,,,,</b>			
		VOLATILES	ug/L or ug/Kg	
	24	acrolein	ND	
	_3V	acrylonitrile	ND	
	44	benzene	ND	
	_6V	carbon tetrachloride	ND	
	7٧	chlorobenzene	ND	
	100	1,2-dichloroethane	ND	
	_117_	1,1,1-trichloroethane	55	
	134	1,1-dichloroethane	75 ·	
	147	1,1,2-trichloroethane	5	
	157	1,1,2,2-tetrachloroethane	ND	
· ·	_16V	chloroethane	ND	
	197	2-chloroethylvinyl ether	ND	
	23V	chloroform	ND	•
	_29V	1,1-dichloroethylene	500	
	_30V	1,2-trans-dichloroethylene	80	
	_32 <b>y</b>	1,2-dichloropropane	ND	•
	337	1,3-dichloropropylene	ND	•
	_38V	ethy l benzene	ND	
	444	methylene chloride	ND	
	_45V	methyl chloride	ND	
	467	methyl bromide	ND	
	47Y	branaform	ND	
	487	dichlorobromomethane	ND	
	49V	trichlorofluoromethane	ND	
	_50V	dichlorodifluoromethane	ND	
	514	chlorodibromomethane	ND	
	85V	tetrachloroethylene	ND	
	867	toluene	ND	
	877	trichloroethylene	30 N	) - Not detected
	884	vinyl chloride	ND	
				_

#### SEES FOWER INN ROAD BACRAMENTO, CALIFORNIA 96824 (§18) 381-6105

9/27

LENT	Engineering-Science		CAL LAB NO. <u>15245-4</u> CLIENT I.D. Well #38D	
	ACID COMPOUNDS	μg/L	BASE/NEUTRAL COMPOUNDS	μg/L
21A 2	.4.6-trichlorophenol	ND	418 4-bromophenyl phenyl ether	ND
	-chloro-m-cresol	ND	42B bis(2-chloroisopropyl)ether	ND
	-chlorophenol	ND	43B bis(2-chloroethoxy)methane	ND
	.4-dichlorophenol	ND	52B bexachlorobutadiene	ND
-	.4-dimethylphenol	ND	53B hexachlorocyclopentadiene	NE
	-ni trophenol	ND	54B isophorone	ND
	-nitrophenol	ND	55B naphthalene	NO
	,4-dinitrophenol	ND	568 nitrobenzene	NE
	,6-dinitro-o-cresol	ND	618 N-nitrosodimethylamine	NE
64A p	entach lorophenol	ND	62B N-nitrosodiphenylamine	N
65A p	henol	• ND	63B , N-nitrosodi-n-propylamine	NE
Ť,			668 bis(2-ethylhexyl)phthalate	43
	BASE/NEUTRAL COMPOUNDS		67B butyl benzyl phthalate	NI
1B ac	enaph thene	. ND	688 di-n-butyl phthalate	NI
	nzidine	ND	69B di-n-octyl phthalate	N
. —	2,4-trichlorobenzene	ND	708 diethyl phthalate	NI
·	xach l orobenzene	ND	718 dimethyl phthalate	N
	xach loroe thane	ND	728 benzo(a)anthracene	N
	s(2-chloroethyl)ether	ND	738 benzo(a)pyrene	N
	chloronaph thalene_	ND	748 3,4-benzofluoranthene	N
	2-dichlorobenzene	ND	758 benzo(k)fluoranthene	N
	3-dichlorobenzene	ND	76B chrysene	N
	4-dichlorobenzene	ND	77B acenaphthylene	N
	3'-dichlorobenzidine	ND	788 anthracene	N
	4-dinitratalyene	ND	798 benzo(ghi)perylene	N
	6-dinitrotoluene	ND	80B fluorene	N
	2-diphenyihydrazine	<del></del>	818 phenanthrene	N
	s azobenzene)	ДN	82B dibenzo(a,h)anthracene	N
398 f	luoranthene	ND	83B indeno(1,2,3-cd)pyrene	N
'A00 A.	-chlorophenyl phenyl ether	ND	848 pyrene	N

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID MCCICIIAN AFB

ES ID 821047

WELL#38D

Aliquot analyzed 1.10ml

Date Received/0/1/82

Detector Used: Coulson, EC, Flame, PID

Date analyzed 170t, 1902	Chemist <u>MSB</u>	Approved
<u>.</u>	Detection Limits	Found (ppb)
Aldrin	0.003	40.003
Alpha BHC	0.002	40002
Beta BRC	0.004	0.021
Delta BHC	0.004	40.004
Gamma BHC (lindane)	0.002	40.002
Chlordane	0.04	40.04
DDD (TDE)	0.012	40.012
DDE	0.006	40.00b
DOT	0.016	20.016
Dieldrin	0.006	40.000
Endosulfan I	0.005	40.005
Endosulfan II	0.01	40.01
Endosulfan sulfate	0.03	40.03
Endrin	0.009	40009
Heptachlor	0.002	L0002
Heptachlor epoxide	0.004	40004
Methoxychlor	0.02	40.02
Toxaphene	0.40	4040
2,4,D	0.001	Z.00)
2,4,5,T	0.001	∠.001
2,4,5 TP (Silvex)	0.002	2.002
DBCP (Dibromochloro propane)		·

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### AROCLOR (PCB) REPORT FORM

Sample ID Mc Chellan AFB		ES ID 821047
· MW # 38 D	Aliqu	ot Analyzed 1.20 u.L
Date Received / October 1981  Date Analysed 17 October 1982	Detector Used: Chemist MSB	EC, Coulson, Flame, PID Approved
	Detection Limits (ppb)	Found (ppb)
Aroclor 1016		
Aroclor 1221		
Aroclor 1232		
Aroclor 1242		
Aroclor 1248		
Aroclor 1254		
Aroclor 1260		

Not detected.

#### METALS REPORT FORM

Chemist _

Sample ID M. ConlonAFB

(NELL # 38D

Date Received 19/1/82

Date analyzed

ES ID 82/047
Aliquot analyzed ______
Method Used ______
Approved _____

Element	Code	Detection Flame	Limit (ppb) Flameless	Detected Ang/X	Limit
Aluminum		500	50		
Antimony	p,c	500	10	< 10	
Arsenic	p,h,c,d,o		10	<50	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	40	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1	450	
Chromium (+6)	C	· •	10		
Cobalt		50	1		
Copper	p,c,d,o	20	1	450	
Gold		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	4/0	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<b>40.5</b>	
Molybdenum	c	500	***		
Nickel	p,c,o	40	1	<40	
Potassium		10			
Selenium	p,h,c,d		10	<10	
Silicon		10			

Element	Code	Detection Flame	n Limit (ppb) Flameless	uglL Detected	Limit
Silver	p,h,c,d,o	50	1	450	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	90.0	

codes: p - EPA priority pollutant h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

AHALYSIS SULTS

MCCICITAN AFB

ANALYSIS PERFORHED

DATE RECEIVED: 10/1/82
DATE REQUESTED:
REQUESTED BY: UANE NORCHAN
PROJECT MINERS: 09792.00

AMALTBIS	ALIA	HATE	ALIPHATES *CRI	ESYCIC D		CVANIDE	מעמ	4		•	
UNITS	3/6		ppm		Mell						
821047		(			207		380				
821048					4,02	$\land$	428				
821049				•	2017)		375				
821050		1			707)		443				
821051		-	0.026		70'7)		408				
821052					70')		465				
R21053					20.7		473				
	5.7				20'7		335				
					50')		345				
PPAN											
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			* 40 6-	bear 1	2						
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AKALYST	20				X						

AMALYSIS ... SULTS

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ANALYSIS PERFORMED

Scor 32

DATE RECEIVED: //DATE REQUESTED:
REQUESTED BY:
PROJECT NUMBER:

A Average of anality againment

# NON-PRIORITY COMPOUNDS DETECTED IN GROUNDWATER SAMPLES

Well	Compound	Concentration (ppb)	Sampling Date
Base Production Wells BW17	N-(phonylmethyl)benzenemethanamine N-(phenylmethylene)benzenemethanamine	د 50 د 50	1-11-82
BW 28	aroclor	0.24	1-11-82
Base Monitoring Wells	tetrahydrofuran	undetermined	3-30-82
<b>1997</b>	tetrahydrofuran	undetermined	3-29-82
<b>8</b>	1,1,2-trichloro-1,2,2-trifluoroethane hexahydro-2H-Azepin-2-one	undetermined undetermined	3-31-82
6.33	M-butylbenzene sulfonamide	undetermined	4-28-82
MM 10	chlorocyclohexane tetrahydrofuran	undetermined undetermined	3-30-82 3-30-82
M412	N-butylbenzene sulfonamide	undetermined	4-29-82
HW13	tetrahydrofuran	undetermined	3-30-82
<b>HE</b> 14	tetrahydrofuran 2 isomers of methyl phenol	undetermined undetermined	3-30-82
	an isomer of dimethyl phenol ethylmethyl phenol	undetermined undetermined	8-18-82
5198	N-butylbenzene sulfonamide N-butylbenzene sulfonamide	undetermined undetermined	4-29-82 8-18-82
-			

# NOM-PRIORITY COMPOUNDS DETECTED IN GROUNDWATER SAMPLES (Continued)

Well	Compound	Concentration (ppb)	Sampling Date
Stage I Shallow Wells 165	tetrahydrofuran	undetermined	6-16-82
178	an isomer of trichlorobenzene N-butylbenzene sulfonamide	undetermined undetermined	6-16-82 8-17-82
198	atrazine	undetermined	4-28-82
208	tetrahydrofuran oily film of undetermined composition several alkanes	undetermined undetermined undetermined	5-25-82 5-25-82 8-11-82
218	tetrahydrofuran	undetermined	6-15-82
228	hexahydro-2H-Azepin-2-one methyl cyclohexane	undetermined undetermined	6-04-82 6-04-82
238	tetrahydrofuran	undetermined	4-28-82
	tetrahydrofuran atrazine atrazine	undetermined undetermined undetermined	8-13-82 4-28-82 8-13-82
248	pentachlorophenol ^a	undetermined	8-12-82
258	tetrahydrofuran N-butylbenzene sulfonamide	undetermined undetermined	6-15-82
268	N-butylbenzene sulfonamide	undetermined	8-11-82
278	tetrahydrofuran hexahydro-2H-Azepin~2-one benzothiazole a dimethylethyl phenol pentachlorophenol N-butylbenzene sulfonamide	undetermined undetermined undetermined undetermined undetermined	6-16-82 6-16-82 6-16-82 6-16-82 8-12-82 8-12-82
288	tetrahydrofuran	undetermined	6-16-82
298	atrazine atrazine	undetermined undetermined	4-28-82 8-16-82
31	an isomer of trichlorobenzene	undetermined	6-16-82

NON-PRIORITY COMPOUNDS DETECTED IN GROUNDMATER SAMPLES (Continued)

We11	Compound	Concentration (ppb)	Sampling Date
Stage I Deep Wells 19D	N-butylbenzene sulfonamide	undetermined	4-28-82
20D	N-butylbenzene sulfonamide several alkanes	undetermined undetermined	4-28-82 8-11-82
220	N-butylbenzene sulfonamide	undetermined	4-28-82
230	N-butylbenzene sulfonsmide	undetermined	4-28-82
25D	tetrahydrofuran N-butylbenzene sulfonamide	undetermined undetermined	6-15-82 8-12-82
26D	N-butylbenzene sulfonamide N-butylbenzene sulfonamide	undetermined undetermined	4-28-82
27D	N-butylbenzene sulfonamide N-butylbenzene sulfonamide	undetermined undetermined	4-28-82
280	tetrahydrofuran	undetermined	6-16-82
29D	N-butylbenzene sulfonamide atrazine atrazine	undetermined ~100 undetermined	4-28-82 4-28-82 8-16-82
Stage II Shallow Wells 39S	N-butylbenzene sulfonamide	undetermined	9-14-82
418	N-butylbenzene sulfonamide	undetermined	9-14-82
448	N-butylbenzene sulfonamide	undetermined	9-13-82

a Aroclor (a PCB) and pentachlorophenol (an acid compound) are EPA priority pollutants.

APPENDIX N

ANALYTICAL DATA
BUILDING 251 SOIL BORINGS

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

#### PRIORITY POLLUTANT DATA SHEET

CLIENT	Engineering Science	CAL LAB NO. 14 238-7
CLIENT I.D.	Brain #1 North 1544	
	VOLATILES	ug/L or ug/Kg
_ 27	acrolein	
3٧	acrylonitrile	
4٧	benzene	7. )
6V	carbon tetrachloride	4.1
7٧	chlorobenzene	
100	1,2-dichloroethane	
110	1,1,1-trichloroethane	
	9 9 44 43	<del></del>

34	acrylonitrile	
4٧	benzene	<i>/.</i> )
6V	carbon tetrachloride	4.3
78	chlorobenzene	
107	1,2-dichloroethane	
117	1,1,1-trichloroethane	260
137	1,1-dichloroethane	
144	1,1,2-trichloroethane	~~)
15V	1,1,2,2-tetrachloroethane	26.5
16V	chloroethane	20
19 <b>V</b>	2-chloroethylvinyl ether	16.2
23V	chloroform	(=,)
29V	1,1-dichloroethylene	140
30V	1,2-trans-dichloroethylene	/(1)
32 <b>y</b>	1,2-dichloropropane	, 60
33V	1,3-dichloropropylene	12.1
38V	ethylbenzene	10
449	methylene chloride	21.1)
45V	methyl chloride	,(1)
46V	methyl bromide	(11)
47٧	branaform	An
487	dichlorobromomethane	,40
497	trichlorofluoromethane	110
_50V	dichlorodifluoromethane	<i>(10)</i>
517	chlorodibromomethane	/40
85V_	tetrachloroethylene	160
86V	toluene	700
877	trichlaroethylene	10
_88V	vinyl chloride	(!,)

ND - Not detected

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-6802

NT	Engineering	ili-nce	CAL LAB NO.	14722-3
`` -		1.1-7/6.6	CLIENT I.D.	2-rin 1 15'
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUN	
21A	2,4,6-trichlorophenol	<u> </u>	41B 4-bromophenyl pho	enyl ether (2)
22A	p-chloro-m-cresol	1.2	42B bis(2-chloroison	ropyl)ether 🔑
24A	2-chlorophenol	ils	43B bis(2-chloroetho	xy)methane (17)
31A	2,4-dichlorophenol	160	528 bexachlorobutadi	ene .30
34A	2,4-dimethylphenol	NO	538 hexachlorocyclop	entadiene 110
57A	2-ni trophenol	11.)	548 isophorone	140
58A	4-n1 trophenol	iUD	558 naphthalene	100
59A	2,4-dinitrophenol	NO	568 nitrobenzene	1910
60A	4,6-dinitro-o-cresol	10	618 N-nitrosodimethy	lamine ///
54A	pentach lorogheno l	(ri)	62B N-nitrosodipheny	Tamine AL
65A	phenol	nn_	63B .N-nitrosodi-n-pr	opylamine An
			66B bis(2-ethylhexyl	)phthelate ~:
	BASE/NEUTRAL COMPOUND	<u>IS</u>	67B butyl benzyl pht	halate 180
18	acenaph thene	~!)	688 di-n-butyl phthe	late (* AD)
58	benzidine	NO	698 di-n-octyl phtha	late /2/2
88	1,2,4-trichlorobenzene		708 diethyl phthalai	(2/1)
98	hexach lorobenzene	nn_	718 dimethyl phthala	te 110
	hexach lorge thane	(U)	728 benzo(a)anthrace	ine 710°
	bis(2-chloroethyl)ether	(4)	738 benzo(a)pyrene	113
	2-chleronachthalene	M	748 3,4-benzofluora	nthene /in
	1,2-dichlorobenzene	no	758 benzo(k)fluoran	thene 1 740
	1,3-dichlorobenzene	141	768 chrysene	100
	1,4-dichlorobenzene	[21)	778 acenaphthylene	7/1
	3,3'-dichlorobenzidine	. (2)	788 anthracene	(4)
		AD	798 benzo(ghi)peryl	ene (20)
	2.4-dinitrotoluene		808 fluorene	77.
	3 2,6-dinitrotoluene	M)	818 phenenthrene	121.
378	B 1,2-diphonylhydrazine (as azobenzene)	/L1)	828 dibenzo(a,h)ant	
391	B fluoranthene	IU)	83B indeno(1,2,3-Cd	
	8 4-chlorophenyl phenyl et		848 pyrene	77.

#### PESTICIDE/HERBICIDE REFORT FORM

Date analyzed	Sample ID Soil Boring #1		ES ID <u>8.76777</u>
Detection Limits (ppb)   Found (ppb)	E 64-5-2	Aliqu	ot analyzed 18.
Detection Limits (ppb)   Found (ppb)	Date Received 6/10-82	Detector Used:	Coulson, EC, Flame, PID
Aldrin	Date analyzed	Chemist LIB	Approved
Alpha BHC		Detection Limits (ppb)	Found (ppb)
Delta BHC   C.004	Aldrin	c. cc3	
Delta BHC	Alpha BHC	0.002	
Camma BHC (lindane)	Beta BHC	C:.004	
Chlordane	Delta BHC	C-004	
DDD (TDE)  C.CI2  DDE  C.CI4.  Dieldrin  C.CC4  Endosulfan I  Endosulfan II  C.CI  Endosulfan sulfate  C.CC3  Endrin  C.CCC2  I.AI  Heptachlor  Heptachlor  C.CC4  Methoxychlor  C.AC  C.AC  2.4,D  C.CC1  C.CC2  C.AC  C.CC2  C.CC	Gamma BHC (lindane)	0.002	1.40
DDE	Chlordane	0.04	
DDT	DOD (TDE)	C.C12	
Dieldrin	DDE	0.006	
Endosulfan I	DDT	c cil	
Endosulfan II	Dieldrin	C.006	
Endosulfan sulfate	Endosulfan I	0.005	2 44
Endrin	Endosulfan II	0.01	
Heptachlor C.002 1.41  Heptachlor epoxide C.004  Methoxychlor C.40  2,4,D 0.001 1.40  2,4,5,T 0.001 2.43  2,4,5 TP (Silvex) 0.002 0.96	Endosulfan sulfate	0.03	
Heptachlor epoxide	Endrin	c.0c9	
Methoxychlor       0.02         Toxaphene       0.40         2,4,D       0.001       1.40         2,4,5,T       0.001       2.03         2,4,5 TP (Silvex)       0.002       0.96	Heptachlor	c.00Z	1.41
Toxaphene C.40  2,4,D 0.001 1.40  2,4,5,T 0.001 2.03  2,4,5 TP (Silvex) 0.002 0.96	Heptachlor epoxide	c.cc4	
2,4,D 0.001 1.45 2,4,5,T 0.001 2.63 2,4,5 TP (Silvex) 0.002 6.96	Methoxychlor	0.02	
2,4,5,T	Toxaphene	C.40	
2,4,5 TP (Silvex) 0.002 0.98	2,4,D	0.001	1.45
0.002	2,4,5,T	0001	2.63
DBCP (Dibromochloro propane)	2,4,5 TP (Silvex)	0.002	C.98
	DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### METALS REPORT FORM

Sample ID McClellon AFB				•	820777
Boring 1 15				liquot analyzed	
Date Received			Me		
Date analyzed		Chemist		Approved	<del></del>
Element	Code	Detection I	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	23.1	
Arsenic	p,h,c,d,o		10	137.5	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	1.27	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	17 to ta	1 /24.0	
Chromium (+6)	c		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	28.0	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	/1./	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	<b>&lt;0.1</b>	
Molybdenum	e	500			
Nickel	p,c,o	40	1	43.5	
Potassium		10			
Selenium	p,h,c,d		10	23.7	

Element	Code	Detection Flame	n Limit (ppb) Flameless	Detected	Limit
Silver	p,h,c,d,0	50	1	1.50	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	68.20	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT	·	Francein Fine	CAL LAB N	0. 14738-18
CLIENT	1.0.	France France Beam #1 20 ft		
		VOLATILES	ug/1_07 ug/	Kg
	27	acrolein	12	
	<u>3v</u>	acrylonitrile	1 1	
	4٧	benzene	10	
	<u>6V</u>	carbon tetrachloride	<u>/( ")                                   </u>	
	7٧	ch i orobenzene	10	
	104	1,2-dichloroethane	<i>,</i> L1)	
	117	1,1,1-trichloroethane	10	
	137	1,1-dichloroethane	700	
	144	1,1,2-trichloroethane	(1)	
	157	1,1,2,2-tetrachloroethane	Ln	
	167	chloroethane	<i>[U</i> )	
	197	2-chloroethylvinyl ether	20	
	237	chloroform	1615	
	29V	1,1-dichloroethylene	_/5/0	
	30V	1,2-trans-dichloroethylene	.20	
	32 <b>Y</b>	1,2-dichloropropane	11.17	
	337	1,3-dichloropropylene	110	
	_38V	ethylbenzene	,44)	
	444	methylene chloride	700	
	45V	methyl chloride	an	
	_46V	methyl bromide	1415	
	474	bramafarm	140	
	487	dichlorobromomethane	MA	
	494	trichlorofluoromethane	440	
	_50V	dichlorodifluoromethane	1115	
	517	chlorodibromomethane	1617	
	85V	tetrachloroethylene	1115	
	86V	toluene	4/10	
	877	trichloroethylene		ND = Not detected
	88V	vinyl chloride	111.	

401 NORTH 18th STREET SACRAMENTO, CALIFORNIA 95814 (818) 444-8822

#### PRIORITY POLLUTANT DATA SHEET

NT	Erainmaina Science		CAL LAB NO	4
			CLIENT I.D. A 124114 /	201
	ACID COMPOUNDS	µg/L	BASE/NEUTRAL COMPOUNDS	u <b>g/</b> L
21A	2,4,6-trichlorophenol	NO	41B 4-bromophenyl phenyl ether	110
22A	p-chloro-m-cresol	10	42B bis(2-chloroisopropyl)ether	110
24A	2-chlorophenol	10	438 bis(2-chloroethoxy)methane	95
31A	2,4-d1chlorophenol	10	528 bexachlorobutadiene	16:17
34A	2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	1.1
57A	2-ni trophenol	in	548 isophorone	107
58A	4-nitrophenol	1117	558 naphthalene	199
59A	2,4-dinitrophenol	110	56B nitrobenzene	14
6QA	4,6-dinitro-o-cresol	141)	618 N-nitrosodimethylamine	110
54A	pentach 1 orogheno 1	14)	628 N-nitrosodiphenylamine	14
65A		MO	63B , N-ni trosodi-n-propylamine	14
			668 bis(2-ethylhexyl)phthelate	16.
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate	i i
.8	acenephthene	12	688 di-n-butyl phthelate	11
58	benzidine	11.17	698 di-n-octyl phthalate	13
88	1,2,4-trichlorobenzene	RD	708 diethyl phthalate	1.
98	hexach lorobenzene	11)	718 dimethyl phthalate	111
			728 benzo(a)anthracene	11
	hexachloroethane	(11)	738 benzo(a)pyrene	/ '
_	bis(2-chloroethyl)ether	- 30	748 3,4-benzofluoranthena	121
	2-chlereneghthalene	711	75B benzo(k)fluorantheme '	25 .
عب	3 1,2-dichlorobenzene	110	76B chrysene	27
_	3 1,3-dichlorobenzene	141)	77B acenaphthylene	27
	B 1,4-dichlorobenzene	141)	78B anthracene	
	B 3,3'-dichlorobenzidine	12/1	798 benzo(ghi)perylene	
_	8 2,4-dinitrotoluene	110	80B fluorene	
	B 2,6-dinitrotoluene	RD	818 phenenthrene	
37	8 1,2-diphonylhydrazine (as azobenzene)	/31)	828 dibenzo(a,h)anthrecene	17.
70		to	838 indeno(1,2,3-cd)pyrene	: /
	8 fluoranthene 8 4-chlorophenyl phenyl ether	(21)	848 pyrene	· · ·

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#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Soil Boung		ES ID <u>626774</u>
#1,2016/4-82 from aug	Aliqu	not analyzed    L.
Date Received 6/16-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	C. C:C-3	
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	D-004	
Gamma BHC (lindane)	0.002	0.57
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.666	
DDT	c.016.	
Dieldrin	C.Utle	2.11
Endosulfan I	0.005	2.51
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.00Z	0.5°I
Heptachlor epoxide	c.0c4	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	3.02
2,4,5,T	0001	C.81
2,4,5 TP (Silvex)	0.002	
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### METALS REPORT FORM

Boring 1 25'					120774
		•		liquot analyzed	
Date Received Date analyzed		Chemi:			
	<del></del>	Cuemtac whitehed			
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50		
Antimony	p,c	500	10	1.75	
Arsenic	p,h,c,d,o		10	57.0	
Barium	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	2.07	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 }btal	75.0	
Chromium (+6)	C		10)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	91	
Go1d		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	//./	
Lithium		50	404		
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	0.21	
Molybdenum	C	500		<del></del>	<del></del>
Nickel	p,c,o	40	1	20.5	
Potassium		10			
Selenium	p,h,c,d	·	10	7.5	<del></del>
Silicon		10			<del></del>

	<del></del>	<b>D</b> = 2 = 2 = 4 = 4	14-45 (1)		
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	0.35	
Sodium		10			
Thallium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	54.0	

codes: p - EPA priority pollutant
 h - EPA hazardous waste
 c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water
o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		France Sience	CAL LAB NO	14722-11
CLIENT	1.0	1#2 131de. 251 15'		
		VOLATILES	ug/L or ug/l	وُ
	_ 2 <b>y</b>	acrolein		
	37	acrylonitrile	<i>/-</i> `	
	4٧	benzene		
	64	carbon tetrachloride	//=1)	
	7٧	chlorobenzene	12	
	100	1,2-dichloroethane	760	
	117	1,1,1-trichloroethane	1615	
	137	1,1-dichloroethane	1-1)	
	147	1,1,2-trichloroethane	7417	
	15V	1,1,2,2-tetrachloroethane	14)	
	167	chloroethane	141)	
	197	2-chloroethylvinyl ether	71:)	
	234	chloroform	yr <b>6</b> , 8	
	29V	1,1-dichloroethylene	(11)	
	304	1,2-trans-dichloroethylene	140	
	324	1,2-dichloropropane	1610	
	33V	1,3-dichloropropylene	1110	
	38V	ethyl benzene	110	
	447	methylene chloride	100	
	45V	methyl chloride	141	
	467	methyl bromide	1117	
	<u>47V</u>	bromoform	11/1	
	487	dichlorobromomethane	(4)	or say
	494	trichlorofluoromethane	1115	•
	_50V	<u>dichlorodifluoromethane</u>		
	514	chlorodibromomethane	111	
	85V	tetrachloroethylene	(11)	
	86V	toluene	aller in	
	87Y	trichloroethylene	1112	ID = Not detected
	887	vinyl_chloride		

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95814 (916) 444-9802

NT <u>E</u>	minerana Sa	ience		CAL LAB NO. 14758	
ACID CO	/ /	µg/L	BAS	CLIENT I.D. #2 /5	13/4 25 ug/L
21A 2,4,6-tr1	ch 1 oropheno 1	ND	41B	4-bromophenyl phenyl ether	NID
22A p-chloro-				bis(2-chloroisopropyl)ether	12.0
24A 2-chlorop		N)	438	bis(2-chloroethoxy)methane	ハロ
	araphena i	ili)	52B	bexach1orobutadiene	NID
	hylphenol	NO	538	hexachlorocyclopentadiene	10
57A 2-nitroph		110	54B	isophorone	111)
58A 4-n1 tropt	enol	/10	558	naphthalene	11.0
59A 2,4-dini		140	56B	nitrobenzene	11,10
	ro-o-cresol	140	61B	N-nitrosodimethylamine	110
64A pentachl	propheno l	147	62B	N-ni trosodi phenylamine	in
65A phenol		(4)	63B	.N-nitrosodi-n-propylamine	141
			668	bis(2-ethylhexyl)phthalate	1217
BASE/N	EUTRAL COMPOUNDS		678	butyl benzyl phthalate	/?r)
'B aconaphth		M	688	di-n-butyl phthalate	An
58 benzidine			698	di-n-octyl phthalate	140
	chlorobenzene	no	708	diethyl phthalate	111)
98 hexachlor	-	NO	71B	dimethyl phthalate	161)
128 hexachler		M	728	benzo(a)anthracene	115
	oreethy!)ether	ju	738	benzo(a)pyrene	11/
208 2-chleres		140	748	3,4-benzofluoranthene	117
258 1,2-dich		in	758	benzo(k)fluoranthene	/11.
26B 1,3-dich		M)	768	chrysene	Mi.
278 1,4-dich		141)	77B	acenaph thy lene	45
	lorobenzidine	, ND	788	anthracene	12:5
358 2,4-din1		100	798	benzo(ghi)perylene	10
368 2,6-dini			808	fluorene	.45
	enylhydrazina	/U)	818	phenenthrene	40
(as azob		140	828	dibenzo(a,h)anthracene	. 1117
398 fluorant		1412	838	the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	410
	phenyl phenyl ethe			pyrene	710

#### PESTICIDE/HERBICIDE REFORT FORM

Sample ID For Bering # L		ES ID <u>£20.178</u>
15' 6/7-82	Aliqu	ot analyzed
Date Received 6/16-52	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist <u>UB</u>	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	1.44
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	D-004	
Gamma BHC (lindane)	0.002	1.01
Chlordane	0.04	
DDD (TDE)	C.012	
DDE	0.006	
DDT	c 016	
Dieldrin	C.Oth	
Endosulfan I	0.005	2.38.
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.CCZ	1.45
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	C.40	
2,4,D	0.001	C.45
2,4,5,T	0001	0.067
2,4,5 TP (Silvex)	C.COZ	0.224
DBCP (Dibromochloro propane)		
· · · · · · · · · · · · · · · · · · ·		<del></del>

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### METALS REPORT FORM

Sample ID Mc Clellon AFO		ES ID 800778
Boring 2 15'		Aliquot analyzed
Date Received 8 June 1982		Method Used
Date analyzed	Chemist	Approved

	_	Detection	Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limi t
Aluminum		500	50		
Antimony	p,c	500	10	3.12	
Arsenic	p,h,c,d,o		10	82.5	
Barium	h,c,d	1,000	5		
Beryllium	р,с,				
Cadmium	p,h,c,d,o	5	0.1	1.32	
Calcium		50	****		
Chromium (+3)	p,h,c,d,o	20	1 Etotal	94.0	
Chromium (+6)	c		رود		
Cobalt		50	1		
Copper	p,c,d,o	20	1	107.0	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	93.7	
Lithium		50	***		
Magnesium		1	***		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o	450	0.5	1.0	
Molybdenum	c	500			
Nickel	p,c,o	40	1	32.2	
Potassium		10	494		
Selenium	p,h,c,d		10	17.2	
Silicon	<del></del>	10			

		Detection	n Limit (ppb)		
Element	Code	Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	0.92	
Sodium		10			
Thallium	р,с,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	57.2	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

CLIENT		Engineering Science  #2 20' Bld 251	CAL LAB NO.	14779-12
CLIENT I	L.D.	1#2 20' Bld 251		
		VOLATILES	ug/L or ug/Kg	
-	24	acrolein	1.3	
_	37	acrylonitrile	2.5	
44	44	benzene	160	
_	6V	carbon tetrachloride	10	
-	7٧	chlorobenzene	160	
-	100	1,2-dichloroethane	(61)	
<b></b>	117	1,1,1-trichloroethane	<u> </u>	
_	134	1,1-dichlorgethane	ILD	
_	144	1,1,2-trichloroethane	1(1)	
-	154	1,1,2,2-tetrachloroethane	141)	
_	167	chloroethane	1617	
_	194	2-chloroethylvinyl ether	(11)	
_	234	chloroform	Li)	
-	29V	1,1-dichloroethylene	1217	
_	30 <b>V</b>	1,2-trans-dichloroethylene	(4)	
	327	1,2-dichloropropane	(11)	
_	<u>33V</u>	1,3-dichloropropylene	14)	
_	38V	ethylbenzene	161	
-	444	methylene chloride	120	
-	45V	methyl chloride	10	
_	46V	methyl bromide	16.5	•
-	474	bromoform	110	
-	487	dichlorobromomethane	1117 -	<b>-</b>
	497	trichlorofluoromethane	161)	
_	50 <b>V</b>	dichlorodifluoromethane	100	
-	517	chlorodibromomethane	1419	
_	85V	tetrachloroethylene	1100	•
	86V	taluene	120 -	
_	874	trichloroethylene	/4/) ND	- Not detected
_	88 y	vinyl chloride	1107 100	-

401 NORTH 19IN STREET SACRAMENTO, CALIFORNIA 95814 (816) 444-8802

ENT	Engineering Science				7-1.
<del></del>	7			CLIENT I.D. 2 16	- ,
	ACID COMPOUNDS	mask mylgom	BA:	SE/NEUTRAL COMPOUNDS	49/t
21A 2	.4.6-trichlorophenol	ND	41B	4-bromophenyl phenyl ether	
22A g	o-chloro-a-cresol	NO	428	bis(2-chloroisopropyl)ether	1.1
24A 2	?-chlorophenol	N)	43B	bis(2-chloroethoxy)methane	
31A 2	2,4-dichlorophenol	A1)	52B	bexachlorobutadiene	*:)
34A 2	2,4-dimethylphenol	1412	53B	hexachlorocyclopentadiene	12.1
57A 2	2-nitrophenol	(11)	548	isophorone	**************************************
58A	4-n1trophenol	ill	55B	naph tha lene	*
59A	2,4-dinitrophenol	(U)	56B	nitrobenzene	211
60A	4,6-dinitro-o-cresol	MIT	618	N-nitrosodimethylamine	.! )
54A	pentach1oropheno1	NID	62B	N-ni trosodiphenylamine	4.67
65A	phenol	1W	63B	.N-nitrosodi-n-propylamine	.50
			66B	bis(2-ethylhexyl)phthelate	1311
	BASE/NEUTRAL COMPOUNDS		67B	butyl benzyl phthalate	120
`8 a	cenaphthene	M)	68B	di-n-butyl phthelate	.41
	ensidine	(4)	698	di-n-octyl phthalate	1.917
	,2,4-trichlorobenzene		<u> 708</u>	diethyl phthalate	- 40
	exach1orobenzene	/UD	71B	dimethyl phthalate	(4)
	nexach1oroethene	140	72B	benzo(a)anthracene	179
	ois(2-chloroethyl)ether	MD	<u>738</u>	benzo(a)pyrene	
	2-chlereneghthelene	IUD	748	3,4-benzofluorenthene	220
	1,2-dichlorobenzene	MI	<u>758</u>	benzo(k)fluoranthene '	.11
. ——	1,3-dichlorobenzene	MO	76B	chrysene	<i>/2</i> ?
	1,4-dichlorobenzene	(U)	<u>77B</u>	acenaph thy lene	10
	3,3'-dichlorobenzidine	1617	<u> 788</u>	anthracene	120
	2,4-dinitrotoluene	141)	<u> 798</u>	benzo(ghi)perylene	7, 1
	2,6-dinitrotoluene	1/1	808	fluorene	7)
	1.2-diphenylhydrazine		818	phenenthrene	
•	(as azobenzene)	(U)	828	dibenzo(a,h)anthracene	11.
398	fluoranthene	14)	838	indeno(1,2,3-cd)pyrene	in
40B	4-chlorophenyl phenyl ether	110	848	pyrene	7. 7

#### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Buling 251		ES ID <u>£26779</u>
#2 2c1	Aliqu	not analyzed    L.
Date Received	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	6.003	1.60
Alpha BHC	0.002	
Beta BHC	C:.004	
Delta BHC	E-004	
Gamma BHC (lindane)	0.002	0.70
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.006	
DDT	c.c16	
Dieldrin	C.Et6	2 10
Endosulfan I	0.005	C.56
Endosulfan II	0.01	
Endosulfan sulfate	0.03	
Endrin	6.009	
Heptachlor	c.ccz	1.70
Heptachlor epoxide	c.cc4	
Methoxychlor	0.62	
Toxaphene	C.40	
2,4,D	0.001	9.14
2,4,5,T	ncei	1.16
2,4,5 TP (Silvex)	0.002	353
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### METALS REPORT FORM

Sample ID McClellon AFB				•	820779	
Boring 2 .				liquot analyzed		
Date Received		Method Used				
Date analyzed		Chemist	<del></del>	Approved		
Element	Code	Detection I	imit (ppb) Flameless	Detected	Limit	
Aluminum		500	50			
Antimony	p,c	500	10	3.37		
Arsenic	p,h,c,d,o		10	525		
Barium	h,c,d	1,000	5			
Beryllium	p,c,					
Cadmium	p,h,c,d,o	5	0.1	1.00		
Calcium		50				
Chromium (+3)	p,h,c,d,o	20	1 Ztotal	85.0		
Chromium (+6)	c		10)			
Cobalt		50	1			
Copper	p,c,d,o	20	1	26.0		
Gold		100	1			
Iron	d	100	1			
Lead	p,h,c,d,o	100	10	13.6		
Lithium		50				
Magnesium		1				
Manganese	d	10	0.5			
Mercury	p,h,c,d,o		0.5	<b>40.1</b>		
Molybdenum	c	500				
Nickel	p,c,o	40	1	28.5		
Potassium		10				
Selenium	p,h,c,d		10	//./		
Silicon		10				

Detection Limit (ppb) Element Code Flame Flameless Detected Limit					
			r rameress		
Silver	p,h,c,d,o	50	1	0.80	
Sodium		10			
Thallium	p,c,				
Tin					
Vanadium	c				
Zinc	p,c,d,o	5	0.05	54.5	

codes: p - EPA priority pollutant

h - EPA hazardous waste c - Ca. Dept. Realth Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

#### PRIORITY POLLUTANT DATA SHEET

		PRIORITY POLLUTANT DATA	ones i	
CLIENT		Ella neemina Science	CAL LAB NO.	14725-13
CLIENT		#3 15'		
	_	,		
		VOLATILES	ug/L or ug/Kg	
	_2٧	acrolein	1-1)	
	3٧	acrylonitrile	1.0	
	4٧	benzene	<i>(</i> U)	
	_6V	carbon tetrachloride	-61)	
	7٧	chlorobenzene	.7.7	
	104	1,2-dichloroethane	1.12	
	117	1,1,1-trichloroethane	120	
	137	1,1-dichloroethane		****
	144	1,1,2-trichloroethane	161)	
	154	1,1,2,2-tetrachloroethane	1310	
	167	chloroethane	(11)	
	_19 <b>V</b>	2-chloroethylvinyl ether	1217	
	23V	chloroform	(11)	
	29V	1,1-dichloroethylene	/49	
	_30V	1,2-trans-dichloroethylene	411	
	_32 <b>y</b>	1,2-dichloropropane	210	
	_33V	1,3-dichloropropylene	<i></i>	
	38V	ethyl benzene	11.1)	
	447	methylene chloride	21n	
	_45V	methyl chloride	11.0	••
	_46V_	methyl bromide	141)	
	_47V	bramaform	/!/)	•
	487	dichlorobromomethane	// ) "	
	494	trichlorofluoromethane	/47	
	_50V	dichlorodifluoromethane	111)	••
	514	chlorodibromomethane	141	
	85V	tetrachloroethylene	1217	
	86V	toluene	1612	e comment
	877	trichloroethylene	/1/2 _NO.	- Not detected

vinyl chloride

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PRIORITY POLLUTANT DATA SHEET			
NT _	Envincencia Surve		CAL LAB NO. 14.7-25-7
	ACID COMPOUNDS		BASE/NEUTRAL COMPOUNDS . ug/L
	ACID CONTONUS	µg/L	· · · · · · · · · · · · · · · · · · ·
21A	2.4.6-trichlorophenol	NU	41B 4-bromophenyl phenyl ether //
22A	p-chloro-m-cresol	NO	42B bis(2-chloroisopropyl)ether 40
24A	2-chlorophenol	NO	438 bis(2-chloroethoxy)methane (A)
31A	2,4-d1ch1oropheno1	ND	52B bexachlorobutadiene (AD)
34A	2,4-dimethylphenol	<u> Mo</u>	538 hexachlorocyclopentadiene A.O.
57A	2-ni trophenol	NO	54B isophorone /W3
58A	4-ni trophenol	NI	55B naphthalene MD
59A	2,4-dinitrophenol	110	56B nitrobenzene An
60A	4,6-dinitro-o-cresol	nn	61B N-nitrosodimethylamine ///
54A	pentach lorogheno l	$\mu$ 1)	628 N-nitrosodiphenylamine /UD
65A	pheno l	ND	63B N-nitrosodi-n-propylamine /6/2
			66B bis(2-ethylhexyl)phthalete 447
	BASE/NEUTRAL COMPOUNDS		678 butyl benzyl phthalate //O
18	acenaph thene	NO	688 di-n-butyl phthalate
58	benzi di ne	NO	*698 di-n-octyl phthalate 'U
88	1,2,4-trichlorobenzene	NO	708 diethyl phthalate ///
98	hexachlorobenzene	M	718 dimethyl phthalate /t/
	hexachloroethene	/U)	72B benzo(a)anthracene ///
	bis(2-chloroethyl)ether	M	738 benzo(a)pyrene ///
	2-chlergnaphthaiene	NO	748 3,4-benzofluoranthene /L!
	1,2-dichlorobenzene	Mo	758 benzo(k)fluorantheme ' /1/
	1,3-dichlorobenzene		76B chrysene /l/
	1,4-dichlorobenzene	no	77B acenaphthylene
	3,3'-dichlorobenzidine	mo	788 anthracene
	2,4-dinitrataluene	no	798 benzo(ghi)perylene
-	2,6-dinitrotoluene	M	808 fluorene
	1,2-diphenylhydrazine		818 phenanthrene
عرب 	(as azobenzene)	1417	828 dibenzo(a,h)anthracene /:/
398	fluoranthene	1415	83B indeno(1,2,3-cd)pyrene
	4-chlorophenyl phenyl ether	143	848 pyrene

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Faring #3		ES ID <u>F. 20.750</u>
15 6/4-82	Aliqu	ot analyzed
Date Received 6/16-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	G. C:C3	1.47
Alpha BHC	0.002	
Beta BHC	0.004	
Delta BHC	Ö-004	
Gamma BHC (lindane)	0.002	172
Chlordane	0.04	
DDD (TDE)	0.012	
DDE	0.606	C.69
DDT	c.016	
Dieldrin	C.006	
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	C.00Z	2.35
Heptachlor epoxide	0.004	
Methoxychlor	0.02	
Toxaphene	c.4c	
2,4,D	0.001	2. <i>6</i> 6
2,4,5,T	0001	1.87
2,4,5 TP (Silvex)	0.002	480
DBCP (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

### METALS REPORT FORM

Sample ID MCCHION AFG				EQ. ID	020100
Boring 3 K			A	liquot analyzed	
Date Received	8 June 1982		M	ethod Used	
Date analyzed		Chemis	ıt	Approved	<del></del>
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Aluminum		500	50	nia/2	
Antimony	p,c	500	10	5.87	<del></del>
Arsenic	p,h,c,d,o		10	80.0	<del></del>
Barium	h,c,d	1,000	5	, 80.0	<del></del>
Beryllium	p,c,	<del></del>		<del></del>	<del></del>
Cadmium	p,h,c,d,o	5	0.1	0.82	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 Etota	85.0	
Chromium (+6)	C		10)		_
Cobalt		50	1		
Copper	p,c,d,o	20	1	26.0	
Gold		100	1		
Iron	d	100	1		
Lead	p,h,c,d,o	100	10	12.4	
Lithium		50			
Magnesium		1			
Manganese	đ	10	0.5		
Mercury	p,h,c,d,o		0.5	LO.1	
Molybdenum	c	500			
Nickel	p,c,o	40	1	22.5	
Potassium		10			
Selenium	p,h,c,d		10	_13.5	
Silicon		10			and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

64/18

8/27/82

Element	Code	Detection Flame	Flameless	Detected	Limit
Silver	p,h,c,d,o	50	1	1.20	
Sodium		10			
Thallium	p,c,	_			
Tin					
Vanadium	c				
Zine	p,c,d,o	5	0.05	53.0	

codes: p - EPA priority pollutant

h - EPA hazardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

# California Analytical Laboratories, Inc.

5895 Power Inn Road Sacramento, California 95824 (916)-381-5105

# PRIORITY POLLUTANT DATA SHEET

CLIENT		Engineering Sance	CAL LAR-A	10. <u>14737-14</u>
CLIENT 1.	. D.	#3 20'		
0616111111				<u> </u>
		VOLATILES	navr ou nav	'Kg
_2	2 <b>Y</b>	acrolein	<i>λ.</i> 5	
_3	3 <b>V</b>	acrylonitrile	1.17	
	47	benzene	. 7	1 × 1
_6	6V	carbon tetrachloride	40	
	74	chlorobenzene	161)	
	107	1,2-dichloroethane	,(1)	4 · •
	117	1,1,1-trichloroethane	10	••
	137	1,1-dichloroethane	.41)	
_1	147	1,1,2-trichloroethane	MO	i em pa
-	157	1,1,2,2-tetrachloroethane	<u>un</u>	
	164	chloroethane		
	197	2-chloroethylvinyl ether	11.10	
	23 <b>Y</b>	chloroform	1610	
	29V	1,1-dichloroethylene	phi	
	30V	1,2-trans-dichloroethylene	/ (1)	
	32Y	1,2-dichloropropane	30	many a base A - company
-	33 <b>V</b>	1,3-dichloropropylene	1617	
	38 <b>Y</b>	ethy1benzene	711)	* . •
	444	methylene chloride	1:47	
_	45V	methyl chloride	1117 -	
	46V	methyl bromide	217	
_	47 <b>V</b>	bronoform	110	
-	48Y	dichlorobromomethane	110	management of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
-	49V	trichlorofluoromethane	145	en marin en alle an arrain
_	50 <b>V</b>	dichlorodifluoromethane		e and amount of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
_	514	chlorodibromomethane	12100	
_	85V	tetrachloroethylene	40	and a light design of the first of the light
_	86V	toluene	<u> </u>	والمراه المحاولة المراضيحين والرازيين والمحافظ والمستخصرة والمراج الم
	87Y	trichloroethylene	11/2	ND - Not detected
_	887	vinyl chloride	<u> </u>	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th

# California Analytical Laboratories, Inc.

401 NORTH 16IN STREET SACRAMENTO, CALIFORNIA 95R14 (916) 444-8882

# PRIORITY POLLUTANT DATA SHEET

NT _	Envineering	Science	CAL LAB NO. 4.7.28-8  CLIENT I.D. 43 D-0+1, 20
	ACID COMPOUNDS	μ <b>g/</b> L	BASE/NEUTRAL COMPOUNDS . vg/L
21A	2,4,6-trichlorophenol	ND	418 4-bromophenyl phenyl ether 200
22A	p-chloro-m-cresol	NO	428 bis(2-chloroisopropyl)ether @ 17
24A	2-chlorophenol	NU	43B bis(2-chloroethoxy)methane
31A	2,4-dichlorophenol	11.17	528 bexach1orobutadiene
34A	2,4-dimethylphenol	141)	53B hexachlorocyclopentadiene ///
57A	2-nitrophenol	$\mu$	548 isophorone
58A	4-n1 trophenol	RD	55B naphthalene (1)
59A	2,4-dinitrophenol	1(1)	568 nitrobenzene 10
60A	4,6-dinitro-o-cresol	NI	61B N-nitrosodimethylamine ///
54A	pentach joropheno i	. /1/7	62B N-nitrosodiphenylamine /1/2
65A	phenol	(41)	63B , N-nitrosodi-n-propylamine #10
		•	668 bis(2-ethylhexyl)phthelate (47)
	BASE/NEUTRAL COMPOUNDS	<u>s</u>	678 butyl benzyl phthalate /110
18	acenaphthene	באת ב	688 di-n-butyl phthelate 65
58	benzidine	NO_	'69B di-n-octyl phthelate ///
88	1,2,4-trichlorobenzene	/1/2	708 diethyl phthalate
98	hexach l grobenzene	ji ji	718 dimethyl phthalate
-	hexach] orgethene	/LD	72B benzo(a)anthracene
	bis(2-chloroethy1)ether	M1)	738 benzo(s)pyrene (1)
_	2-chiereneshtheiene	(NI)	748 3,4-benzofluorenthene /n.
	B 1,2-dichlorobenzene	(LD	75B benzo(k)fluoranthene
	B 1,3-dichlorobenzene	AD	76B chrysene
	B 1,4-dichlorobenzene	11)	778 acenaphthylene
	8 3,3'-dicklorebenzidine	, AD	788 anthracene
		1:11)	798 benzo(ght)perylene
	8 2.4-dinitrotoluene		808 fluorene
	8 2,6-dinitrotoluene	11)	818 phenanthrene
37	8 1,2-diphonylhydrazine (as azobenzene)	120	828 dibenzo(a,h)anthracene
30	B fluoranthene	pH?	83B indeno(1,2,3-cd)pyrene
	18 4-chlorophenyl phenyl et		848 pyrene //

### PESTICIDE/HERBICIDE REPORT FORM

Sample ID Former #3		ES ID 820781
26 L/a-E2	Aliq	not analyzed 12.
Date Received 6/16-82	Detector Used:	Coulson, EC, Flame, PID
Date analyzed	Chemist LIB	Approved
	Detection Limits (ppb)	Found (ppb)
Aldrin	c. cc3	# = 1 · · · · ·
Alpha BRC	0.002	<u> </u>
Jeta BRC	c.ce4	
Delta BRC	D-004	
Gamma BHC (lindane)	0.002	1.76
Chlordane	0.04	
DDD (TDE)	0.012	
DDS	0.006	and page separation of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sam
DDT	6.016	
Dieldrin	1.006	·
Endosulfan I	0.005	
Endosulfan II	0.61	
Endosulfan sulfate	0.03	
Endrin	0.009	
Heptachlor	c.00Z	2.29
Heptachlor epoxide	0.004	
Methoxychlor	0.6.2	
Toxaphene	C-40	
2,4,D	0.001	2.09
2,4,5,T	001	
2,4,5 TP (Silvex)	0.002	
DBCF (Dibromochloro propane)		

ENGINEERING-SCIENCE - BERKELEY LABORATORY

#### METALS REPORT FORM

Borina 3	20'	Aliquot analyzed			
Date Received					
Date analyzed		Chemist			
Element	Code	Detection Flame	Limit (ppb) Flameless	Detected	Limit
Alusinus		500	50		
Intimony	p,c	50G	10	4.55 *	
Arsenic	p,h,c,d,o	***	10	52.5 *	
Barium.	h,c,d	1,000	5		
Beryllium	p,c,				
Cadmium	p,h,c,d,o	5	0.1	1.04 *	
Calcium		50			
Chromium (+3)	p,h,c,d,o	20	1 Ztotal	80.5	·
Chromium (+6)	c		70)		
Cobalt		50	1		
Copper	p,c,d,o	20	1	22 *	
Gold.		100	1		
Iron	đ	100	1		
Lead	p,h,c,d,o	100	10	14.9	
Lithium		50			
Magnesium		1	72-		
Manganese	d	10	0.5		
Mercury	p,h,c,d,o	-	0.5	40.1	
Molybdenum	c	500			
Nickel	p,c,o	40	1	27.2*	<u> </u>
Potassium		10		and major to	
Selenium	p,h,c,d	~~~	10	10.5 *	a na ja na a ja ajada naja na saka k
Silicon		10			

Detection Limit (ppb)  Element Code Flame Flameless Detected Limit						
Element	Code	Flame	Flameless	Detected	LIMIT	
Silver	p,h,c,d,o	50	1	0.86 *		
Sodium		10				
Challium	p,c,					
Ma						
Panadium.	e					
ine	p,c,d,o	5	0.05	48.9		
er man i sammanan er man er er er		5	0.05	48.9		

codes: p - EPA priority pollutant

h - EPA hezardous waste

c - Ca. Dept. Health Services hazardous waste

d - EPA drinking water

o - Ocean waters of California

* Average of quality assurance duplicates.

APPENDIX O

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AQUIFER TEST DATA

# **AQUIFER TESTING DATA**

PROJECT	NAME :				RECOVERY
project #		wel # 445			PUMPING
location /		nlands, C.	A		
		09 1. fer	ground elevation	<u>5379</u>	elevation of casing
distance from		depth of	well in	scree	on interval <u>83'-93'</u>
date test begs	9/20/0	2 time test	began 9:3	> am	h = 78.06
water level in		4-Scope			
	1	2		4	
TIME	DEPTH TO WATER (ft)	DRAWDOWN (residual) (ft)	ELAPSED TIME (min) days	t/t'	REMARKS
	0.50	10.50			pumpo 14
15:10	90.58	12.52	1.7 × 10 -4	1.56 × 103	+/t = t +0.2700x
15:10:15	90.16	11.79	5.2×10-4	5.19 × 102	+ + 17741
15:10:45	89.85	11.02.	1 * 10-3	2.60 y 102	· · · · · · · · · · · · · · · · · · ·
11:45	t · · — — —	10.74	1.2 10-3	2.23×102	
12:cc	88.54	10.48	1,4 , 10-3	1.95 × 102	
12.15	38.21	10.15	1.5 ×10-3	1.74×102	
12:30	88.04	9.98	1.710-3	1.57×102	
12.45		9.73	1.3 ×14-3	1.42 × 102	
13:15		9.27	2.2 ***	1.21 × 102	
13:30	87.CS	9.02	2.4 ×10-3	1.12 ×102	
14.0c	86.62	8.56	2.8 -15-3	9.82×10'	
14:30	86.25	8.19		8.74×10'	
15:00	85.79	7.73	3.5012-3	9.88 x10'	
15:30	8542	7.36	3840-3	7.17×10'	
15:00	84.96	6.90	4.2 ×15-3	6.58×10°	
16:30	34.46	6.40	4,5110-3	3.08×10	
17:00	84.04	5.98	49 × 10	5.65 Y10	
19:30	83.58	5.52	. 52 × 10°	5.28 vio	
	8321	5.15	5.6 × 10	2.96 ×10'	
	82.85	4.79	5.6 × 10 ³ 5.9 × 10 ³ 6.3 × 10 ³ 6.6 × 10 ³	4.67 ×10'	
	82.48	4.42	6.3 × 103	4.42 Y10'	
	52 16	4.10	6.6 × 10	4.19 x 10'	
	31.25_	3.79	6.9 × 10 ⁻³	3.99 x 10'	
70:21	181 56	3.50	9.3 × 10 3	5.50 100	1

# **ENGINEERING-SCIENCE**

DESIGN . RESEARCH . PLANNING

600 BANCROFT WAY . BERKELEY, CALIFORNIA 94710 . 415/548-7970

OFFICES IN PRINCIPAL CITIES



# AQUIFER TESTING DATA

PROJECT NAME		RECOVERY _X_
project # well #	445	PUMPING
location	<del> </del>	
formation tested		
distance from test well	depth of well screen inter	Val
date test began	time test began	<u> </u>
water level indicator		

ME	DEPTH TO WATER (ft)	DRAWDOWN (residual) (ft)	ELAPSED TIME (min)	t/t'	REMARKS
5:21:00	81.29	3.23	7.6×10	3.63×10'	
: 21:30	,	2.96	8.0×10°	3.48 × 10'	
22:00	80.77	2.71	8.3×103	3.34 × 10'	
22:30		2.50	8.7×103	3.21 ×10	
23:00	1	2.30	1 9.0 × 103	3.09 x 10'	
23:30	80.16	2.10	9.4×103	2.98 x 10'	
24 00	80.00	1.94	9.7×10-3	2.88×10'	
24.30	79.83	1.77	1.01×102	2.48110	
25 00	79.67	1.6	1.04/10	2.69410	
?5 70	79.53	1.47	1.08 ×102	2.61 x 10'	
26 00	77.46	1.34	1.11 ×10-2	2.53x 10'	
26 10	79.28	1,22	1.15 x/0	2.46 × 10'	
27.00	79.17	1.11	1.18×10°	2.39 x 10	
27 90	79.08	1.02	1,22×10	2.32×10	
28.00	178.98	0.92	1.25x102	2.26×10	
28:33			<u> </u>		
<i>0. و</i> ي	78.80	0.74	1.32 1102	2.15×10'	
29:30	78.74	0.68	1.35 y/02	2.09×10	ب ب ب
30:20	78.67	0.61	1.39 x/02	2.04 x 10'	
30.90	72.61	0.55	1.42×10-2	2.00 ×10	
3/.30		0.48	1.46×10 ⁻²	1.95 x /11	
3:30	78.51	0.45	1.49 ×10-2	191×10'	
72:00		0.40	1.53×10	1.87×10	
33:a		0.31	1.60 x10	1.99×10	
34.W	78.31	0.25	1.67×10-2	1.72×10'	

# **ENGINEERING-SCIENCE**

DESIGN . RESEARCH . PLANNING

800 BANCROFT WAY . BERKELEY, CALIFORNIA 94710 . 415/548-7970

OFFICES IN PRINCIPAL CITIES



PROJECT NAME		RECOVERY X
project # well #	445	PUMPING
location		
formation tested	ground elevation elevation	ot casing
distance from test well	depth of well screen interval	
date test began	time test began	
water lavel believes		

TIME	DEPTH TO WATER (ft)	DRAWDOWN (residual) (ft)	ELAPSED TIME (min)	t/t'	REMARKS
15:35:00	78.25	0.19	1.74 × 102	1.66 × 10'	
36.00	78.22	0.16	1.8/x/0	1.60 × 10'	
37:00	78.18	0.12	1.88×10-2	1.54×10'	
38:00	72.15	0.09	1.94×10-2	1.49×10'	
39.00	78.13	0.07	2.01 x/0-2	1.44 10	
40.00	78.11	0.05	2.08×10-2	1.40×10'	
41:00	78.09	0.03	2.15×10-2	1.35×10'	
42:00	78.08	0.02	2.22 4/0-2	1.92×10'	
			2.36 ×10-2	1.24 × 10'	
			2.50 y 10 2	1.18×10'	
	·		2.64 × 102	1.12 ×10'	
			2.78 ×102	1.07 ×10'	
			2.921/02	1.03.x10'	
		<del></del>	3.06 410-2	9.84	
END	OF RECOVE	ey Test			
		,			

# **ENGINEERING-SCIENCE**

DESIGN . RESEARCH . PLANNING

600 BANCROFT WAY . BERKELEY, CALIFORNIA 94710 . 415/548-7970

OFFICES IN PRINCIPAL CITIES



ROCOVSRY KEMI-LOGARITHMIC 3 CYCLES x 140 DIVISIONS 1 ... 9 . 8 ... 7. 3 . 2 . . [4-84] Ç = = 3

Test Dote: well #

9/23/82 245 Slug

Test:

TESTING DATA

2	1		٥	<b>1</b>	2	3
Eupsed	Depth to water	H ! +/+6	Elapsed Time	Depth to Water	H	H./
Time (sec)	(74)	10	(sec)	(Ft)		He
	3.67	86.33 0.959	640	23.67		
45	4.75	85.25 0.947	690	24.50	45.5	0.728
60	5.58	84.42 0.938	720	25.00		
75	6.17	23.83 0.931	750	25.67		
90_	7.08	82.92 0.921	780	26.50		
105	7.67	82.33 0.915	810	26.83	63,17	0.702
120	8.33	21.67 0907	840	27.50		
150	9.58	20.42 0.894	870	28.08		
165	10.17	79.83 C.887	900	28.67		
180	1 10.75	79.25 0.881	930	29.08	60.92	0.678
210	11.75	78.25 0.868	960	29.67		
225	12.33	77.67 0.863	990	30.25		
240	12.95	77,25 0.853	1020	30.75		}
255	13.33	76.67 0.852	1050	31.17	58.83	0.654
290	13.75		1080	31.75		
285	14.25		1110	32.42		
300	14.75		1140	32.92	57.08	0.634
330	15.50	7440 0.827	1170	33.42	1.02	
360_	16.33		1200	34.00	56.00	0.622
390	17.25		1230	34.60		
420	18.00		1260	34.83		
450	18.75		1290	35.08	54 92	0.610
480	19:50	70-1 0.779	1320	35.67		
510_	20.33		1380	36,50		
540	20.92		1440	37.42	}	
570	21.67	68.33 0.759	1500	38.33	51.67	0.574
600	22.42		1560	39.00		
630	23.08	66.92 0.744	1620	39.92		•

09792.00 JOB NO.___

DATE 14/7/82

Test Oote Well # Test : 9/23/82 245 5/vg

# AQUIFER TESTING DATA

#	3

9	_ 1	2 .	_ 3	<u>.                                    </u>	1	2	3
Elapsed	Depth to Water	Н	H/	Elopsed	Depth to Water	14	H/
CSEC)	(A)		/H.	(sec)	(Ft)		H/H,
1680	40.58			3360	55.60	34.4	0.382
1940	41.33			3420	55.92		
1800	41.92	4808	0.534	3480	56.73		
1860	42.50	1 :		3540	56.75		
1920	43.08			3600	57.08		-
1980	44,00	460	0.511	3720	57.83	32.17	0.35
2040	44.58			3840	53.50		
2/00	45.33			3960	59.33		] -
2160	45,83			4080	59.92		
2220	46.50	435	0.483	4200	40.58		
2280 -	47.00			4320	61.42		
2340	47.50			4440	62.00	28.00	0.311
2400	48.00	1		4560	62.50		
2460	48.58			4680	63.08	_	
2520	49.17			4800	63.75		
2580	49.58			4920 -	64.42	1	
2640	50.08			5040	65.08		
2900	50.50	39.5	0,439	5160	65.58	[	
2760	51.08			5280	66.08	23.92	0266
2820	51.58			5400	66.58		
2880	52.00			5520	67.12		
2940	52.42			. 5640	67.75		
30.00	52,92	37,08	0.412	5760	68.08		-
3060	53.33			5880	68.58		
3120	53,75			6000	69.00	21.00	0.233
3180	54,25			6120	69.50		
3240	54.75			6360	69.92		
3700	55.00			10800	81.17		-

DATE 10/7/82

46 6010

Test Date: 9/22/82 Well # 245 Test: 5/ug Ho: 87.7'-

SLUG TEST

AQUIFER TESTING DATA

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	105	5.50			600	20.75		
	120	6.33			630	21.50		
	135	6.75	80.95	0.923	660	22.25	65.45	0.746
•	150	7.25			690	23.00		
	180	8.25	79.45	0.906	720	23.75		
	195	8.75			750	24.42	63.28	0.722
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	225	9.92	77.78	0.887	810	25.75		
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	315	12.75		4	930	28.17	59.53	0.679
_	330	13.42			960	28.83		
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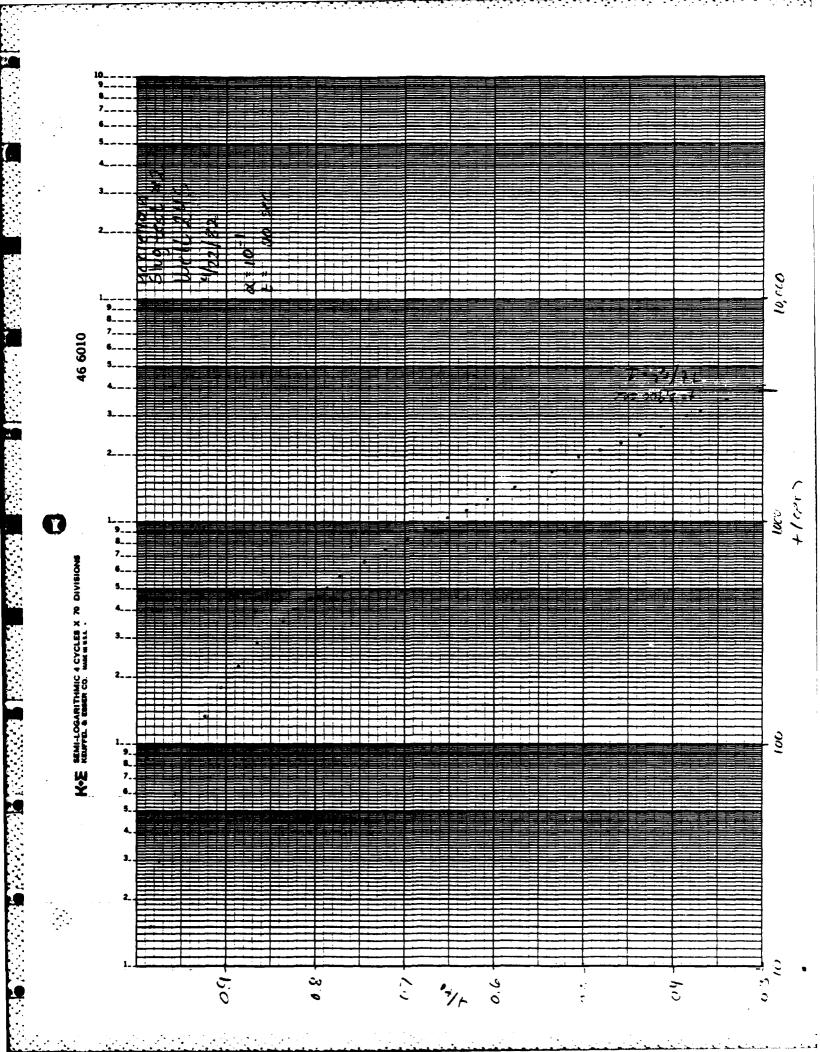
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#### APPENDIX P

SAMPLING PROCEDURES AND FIELD DATA SHEETS FOR GROUNDWATER MONITORING WELLS AND BASE PRODUCTION WELLS

#### APPENDIX P

# SAMPLING PROCEDURES FOR GROUNDWATER MONITORING WELLS AND BASE PRODUCTION WELLS McClellan AFB, California

Read the entire sampling procedure before sampling.

- Unlock the iron casing cap. For multiple-completion wells, determine which well is shallow and which is deep. Each PVC casing is labeled either "S" or "D".
- 2. Take a static water level measurement to within 1/10 inch.
- 3. Arrange sampling bottles for the well to be sampled:
  - 1-gallon bottle for GC/MS
  - 1-gallon bottle for herbicides/pesticides/metals
  - 1 VOA bottle for volatiles
  - 1 polyethylene bottle for cyanides
  - 1 glass bottle for cresylic acid, PCB's, or aliphatics (if applicable)
- 4. Label sampling bottles:
  - McClellan AFB
  - Well number (e.g., 165)
  - · Date
  - * Type of analysis to be performed
  - Initials of person sampling
- 5. Set up rinse containers for the sampler and bailer:
  - * Place three 5-gallon buckets near the well to be sampled.
  - * Label the buckets "First Rinse", "Acetone", and "Final Rinse".
  - * Fill the buckets labeled "First Rinse" and "Final Rinse" half full with deionized water, and the bucket labeled "Acetone" one-quarter full of acetone. Keep lids on the buckets when not used for rinsing.

- 6. Wear neoprene gloves at all times during sampling and avoid skin contact with the well water. Thoroughly wash skin or clothing that came in contact with well water. When removing the caps from the well casings and during sampling, do not breathe directly over the well.
- 7. Place the tripod over the well to be sampled. Attach the pump to the steel cable on the tripod. Strong nylon rope (3/8 inch) may be used instead of the tripod and cable if the pump is to be lowered into and raised from the well by hand. Lower the pump into the well to a depth of about 10 feet below the water surface. In shallow wells, lower the pump almost to the bottom of the well-Avoid kinks in the Teflon tubing as the pump is being lowered.
- 8. Place the generator near the well in a place that will avoid fire danger from the exhaust. Connect the pump to the generator.

  Turn the generator on.
- 9. If water is being discharged from the Teflon tubing, proceed to Step 10. If no water is being discharged, as may happen in shallow or silted wells, remove the pump and sample the well by bailing. For bailing, remove about one well volume of water from the well. (For 4-inch wells, 1 foot of water is approximately equivalent to 1/2 gallon.)

Sample the well with a glass/Teflon or all-Teflon sampler and pour the water into the respective bottles arranged in Step 4. A glass funnel may be used when pouring water into bottles. The VOA bottle must not contain air bubbles; turn the bottle upside down for visual inspection of the sample. Place the samples in an ice chest.

Rinse the sampler and bailer in the buckets arranged in Step 5. Also clean the part of the cord that was submerged in the well water with the sampler. Take a final water level to within 1/10 inch. Recap the well, lock the iron casing, and proceed to the next well.

10. Well water is being discharged from the Teflon tubing. Direct the water into an empty 5-gallon bucket and estimate the pumping rate

- in gallons per minute based upon the time required to fill the bucket.
- 11. Continue pumping until 4 well volumes have been removed (1 foot of water in 4-inch well is about 1/2 gallon).
- 12. Collect samples in sampling bottles directly from the Teflon tubing. The VOA bottle must not contain air bubbles; turn the bottle upside down to visually ensure that no air is present.
- 13. Place all samples in an ice chest.

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- 14. Turn off the generator, remove the pump, and take final water level to within 1/10 inch. Recap the well, lock the iron casing, and proceed to the next well until all wells have been sampled.
- 15. Keep accurate notes on procedures employed and on all data collected by completing the attached form for each well.

SAMPLING OF MONITORING WELLS MCClellan APB, California

			COMMENTS
			Aliphatic
			Cyanide
		ted	Metals
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			GC/MS VOA Pest/Herb Cres Acid PCB Metals Cyanide Alighatic
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3			
 3		Procedure	
 4			

#### CALCULATION OF CASING VOLUME FOR MONITORING WELL PURGING AND SAMPLING

#### CALCULATION OF CASING VOLUME

Prior to withdrawing samples, the stagnant water in the well must be removed. Usually this will involve removing one to three casing volumes (the amount of water standing in the well prior to purging).

To calculate the casing volume:

- 1. Measure depth to water (inches).
- 2. Measure depth of well (inches), or obtain from records.
- 3. Calculate water depth (well depth depth to water).
- 4. Measure diameter of well casing (inches).
- 5. Calculate casing volume (V):

$$V (cu in) = \pi \frac{(casing diameter)^2}{4} \times depth of water$$

$$V (gal) = (cu in) \times 0.0043 gal/cu in$$

#### Example:

For a 20-foot well (from top of casing) with a water level 9 feet below the top of the casing and a diameter of 2 inches, calculate the casing volume.

$$V (cu in) = \pi \left(\frac{2.0 in}{4}\right)^2 \times (11 ft \times 12 in/ft) = 414.7 cu in$$

$$V$$
 (gal) = 414.7 cu in x 0.0043 gal/cu in = 1.8 gal

#### SLUG TEST DATA SHEET

Ho: Ini	tial water level	Date Well #		
Casing	Elevation:			
			Analyst	***************************************
	Elapsed Time	Depth to Water from Top of Casing	H = Depth to Water from Ground Level	
Time	(sec)	(ft)	(ft)	H/H

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### Q's PUMP TEST

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** ·			Date
<b>-</b> ·			Well #
			Analyst
a	b	c	đ
Time	Flow Interval	Rate of Flow	Total Flow (gallons) (b x c)

#### PUMP TEST DATA SHEET

о: I	nitial water le from ground sur	vel face)	Date		
Casing	g elevation: _		Ana	alyst	<del></del>
Time	t = Elapsed Time (days)	Depth to Water from Top of Casing (ft)	H = Depth to Water from Ground Level (ft)	Residual Drawdown (HH)	t/t'

 $t/t' = \frac{t' + t}{t'}$ 

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t = total time pumped

t' = elapsed time since recovery started

# APPENDIX Q

FIELD AND SAMPLING EQUIPMENT
AND BAILER SELECTION

STATES A PROGRESS OF THE STATES ### APPENDIX Q

# FIELD AND SAMPLING EQUIPMENT AND BAILER SELECTION

### FIELD AND SAMPLING EQUIPMENT

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	<u>Itam</u>	<u>Use</u>
1.	Well padlock key	Unlock well lock
2.	3-inch (OD) submersible pump (Standard Pump Co., Bardlesville, Oak)	Well pumping
3.	Effluent hose, Teflon-lined, attached to pump	Well sampling
4.	175 feet of 3/8 inch nylon rope and/or	Support pump when lowering and raising pump into and
5.	Tripod	from well
6.	Electronic water-level indicator (battery powered) (Well sounder, Electric Products Co., Fresno, CA)	Water-level readings
7.	10-foot steel measuring tape (1/16-inch calibration)	Measurement of water level
8.	3500-watt generator	Electrical current for pump
9.	5 gallon buckets (3)	Sampler rinsing
10 •	5 gallon "Jerry Jugs" (10)	Carrying DI water
11.	Teflon/glass samplers (2)	Well sampling
12 -	All-Teflon sampler	Well sampling
13.	Sample containers (per sample) (a) 1-gallon glass bottle (b) 1-gallon glass bottle (c) 2 VOA bottles (d) 1-quart polyethylene bottle (e) 1-quart glass bottle	Sample collection GC/MS Herbicide/pesticide/metals Volatiles Cyanida Cresylic acid, PCB's, or alighatics

### Item

# <u>Use</u>

14.	Glass funnels (wide mouth)	Transfer of sample from sampler to sample containers
15.	Sample bottle labels	Labeling bottles
16.	Deionized water	Rinsing samplers and bailer between samples
17.	Acetone	Rinsing/decontaminating samplers between samples
18.	Neoprene gloves	Avoid skin contact with water
19.	Leather gloves	Pulling rope when removing pump
20.	Bailer (1200-ml capacity)	Bailing wells prior to sampling
21.	175 feet of 3/16-inch nylon rope	Rope support for bailing and sampling
22.	Stopwatch or watch with second hand	Timing flow rate
23.	Ice chests (containing ice)	Storing samples
24.	Non-water soluble felt marker	Labeling sample bottle labels (#15 above)
25.	Well data sheets	Recording well data
26.	Bottle brushes	Cleaning samplers and bailers between sampling
27.	Sodium hydroxide (reagent grade) pellets	Preservative for cyanide samples
28.	Squirt bottle	Rinsing sampler with acetone

#### ADDITIONAL USEFUL EQUIPMENT

#### Item

Pipe wrenches (two)
Electrical tape
Electrical wire
Flashlight
Mirror
Extension cord
Gasoline and can
Motor oil

Use

Screw drivers
Extra rope
Extra samplers and bailers

Well cap puller Wire stripper

Knife

Miscellaneous pipe fittings Size AA batteries (water-

level meter)
Plastic funnel

#### BAILER SELECTION

and a secretarial despendent (proposition) (proposition) when the

Three types of bailers are available for well sampling and well purging. The bailer material to be used should be based on the following considerations.

#### Utilize PVC bailer when:

Pliers

- No information is available regarding suspected or known contamination.
- Heavy metal contamination is suspected or known to exist, and organic contaminants are suspected or known not to exist.

#### Utilize stainless steel bailer when:

Organic contamination is known to exist, and heavy metal contamination is known or suspected not to exist.

#### Utilize a Teflon bailer when:

- Highly suspect areas for contamination exist.
- . Known organic and heavy metal contamination exist.
- * Acid-water conditions are known or suspected.

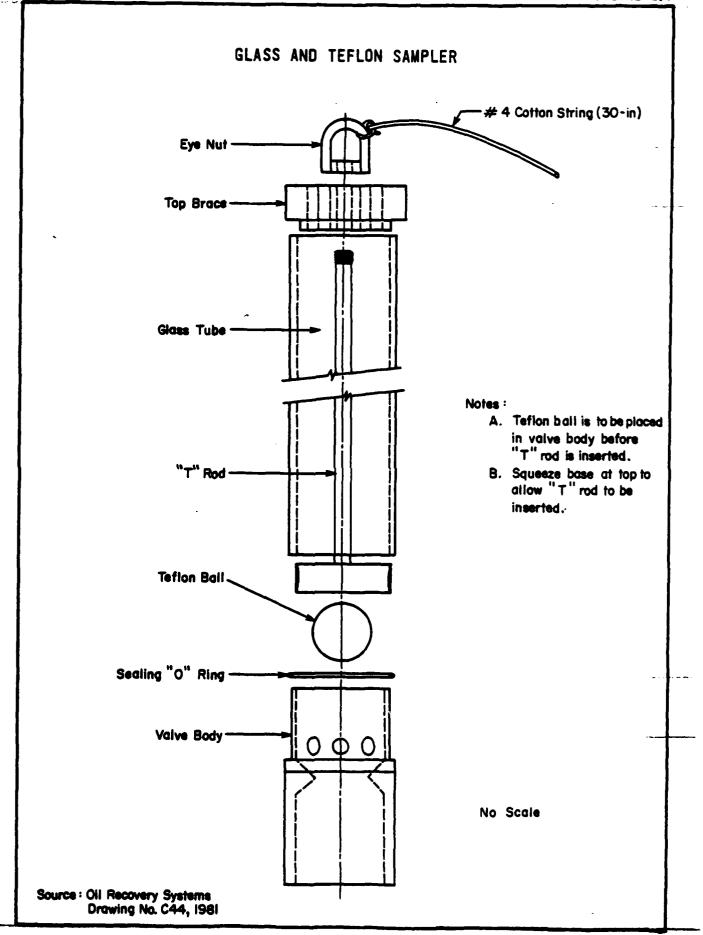
#### FIELD EQUIPMENT FOR PUMP AND SLUG TESTS

#### Pump Test

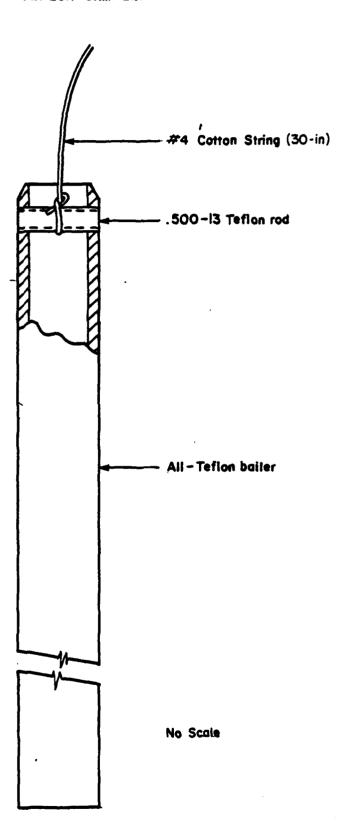
- 1. Submersible pump with attached effluent hose
- 2. 3/8-inch nylon rope
- 3. Electronic water-level meters (three)
- 4. 10-foot steel measuring tape
- 5. 3500-watt generator
- 6. 5-gallon bucket
- 7. Leather gloves
- 8. Clock with second hand
- 9. Data sheets
- 10. Gasoline, can, and funnel

### Slug Tests

- Two plastic 55-gallon drums, modified with a 3-inch flexible hose attached at the base (outlet with door valve)
- 2. Electronic water-level meter
- 3. 10-foot steel measuring tape
- 4. Clock with second hand
- 5. Data sheets







Source: Oil Recovery Systems
Drawing No. ORJ-235-1,

1982

## APPENDIX R

EQUIPMENT AND ENTRY PROCEDURES FOR INDUSTRIAL WASTE LINE INVESTIGATION

## SAFETY EQUIPMENT

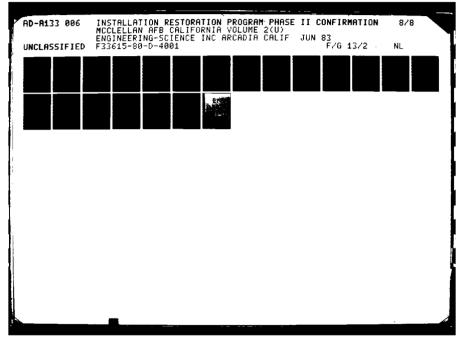
-	Item	Number
1.	Air line mask and 5-minute egress bottle	3
2.	Air hose (50-foot)	3
3.	Air cylinders (150-minute capacity each)	6
4.	Egress bottle fill hose	1
5.	Air cylinder regulator with Y-connector	1
6.	Gastech 1214 Combustible Gas and 0, Meter	1
7.	Gas detector pump	1
8.	Gas detector ampules, 20 each for	
	CO, H_S, HCN, toluene, benzene	20 each
9.	30-minute emergency air pack	1
10 -	10,500-cfm, 110-V explosion-proof fan	2
11.	Contractor's first aid kit (1 to 15 employees)	1
12.	Fire hose/nozzle/hydrant wrench/T-handle	1
13.	Body harness and life line	2
4.	Rain suits/gloves/boots/hard hats (sets)	3
15.	500-cfm, 12-V fan and trunk	1
6.	Explosion-proof flashlights	2

# LOW-PRESSURE AIR TEST AND MISCELLANEOUS EQUIPMENT

- 1. Compressor/adaptor/hose
- 2. Test panel with gages
- 3. 500-ft hose reel and air winch
- 4. Winch and pulley
- 5. Inflatable plugs, 4-inch through 20-inch (2 each)
- 6. Wayne balls, 4-inch through 20-inch (1 mach)
- 7. Heavy rope, 600 feet
- 8. Light ropes, 400 feet and 100 feet
- 9. Twine, 400 feet
- 10. Pick, crowbar, shovel
- 11. Ladders, 14-foot (2)
- 12. Inspection mirror
- 13. Assorted 2"x4"s for bracing, etc.
- 14. Miscellaneous tools and saw

## INDUSTRIAL SEWER ENTRY PROCEDURE

- I. The only ES personnel entering the industrial sewer manholes shall be Steve Deering, except for emergency assistance. He has obtained a medical examination including: medical history, pulmonary function test, chest X-ray, EKG, and a positive health statement by the examining physician. A copy of the statement is attached. The medical examination is in conformance with CAL/OSHA requirements (Cal/OSHA, 1981).
- II. Prior to entry to any manholes, the following procedures shall be followed:
  - A. Shut down and tag pumps (and starters) in Lift Station at Building 243B. Close discharge gate valves.
  - B. A fire hose with nozzle will be connected to a fire hydrant and be stand-by ready. Power for ventilation will be stand-by ready.
  - C. Steve Deering will be outfitted with rubber boots, rain suit, rubber gloves, hard hat, respiratory equipment (bottled air supply, plus 5-minute egress bottle), body harness with life line, and hard hat.
  - D. The sewer will be opened and prior to ventilation will be tested for: lower explosive limit (LEL), HCN, H₂S, toluene, benzene, and CO.
  - E. The sewer will then be ventilated and retested for any earlier positive tests. Hazards will then be discussed.
  - F. Steve Deering may then enter the sewer by ladder and proceed with low-pressure air test procedures.
  - G. One safety person shall be in constant visual contact with Steve Decring and with a second outside person and shall be prepared to assist him in leaving the sewer.
  - H. A continuous LEL and 02 deficiency monitor with audio alarm will remain in the sewer work area at all times while occupied.



CHARLES E. GRAHAM, M. D. 530 LOMAS SANTA FE DRIVE SOLANA BEACH. CALIFORNIA 92075

To. Engineering Science.

January 13, 1982

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Charles E. Graham MD

APPENDIX S

ANALYTICAL PROCEDURES

#### APPENDIX S

#### ANALYTICAL PROCEDURES

# PESTICIDES

Organochlorine pesticides were determined according to procedures described in EPA <u>Guidelines Establishing Test Procedures for the Analyses of Pollutants</u>, Method 608. A 1-liter aliquot of the water was extracted with methylene chloride, dried, concentrated to a 10-ml volume, and analyzed by GC/ECD.

### HERBICIDES

Chlorinated phenoxy herbicides (2,4-D, 2,4,5-T, and 2,4,5-TP Silvex) were determined according to procedures described in <u>Standard Methods for Examination of Water and Wastewater</u>. A 1-liter acidified sample was extracted with ether, hydrolyzed, esterified using boron trifluoride, and analyzed according to the procedure described in the <u>Federal Register</u>, Vol. 30 (75), Pt. II for NPDES.

# TRICHLOROETHYLENE (TCE)

Analysis for TCE was by purge and trap, GC/Coulsen according to EPA Method 601 found in the Federal Register, Vol. 44 (233).

## PRIORITY POLLUTANTS

Samples were analyzed for volatile and extractable priority pollutants by EPA Methods 624 and 625, using gas chromatography/mass spectroscopy (GC/MS). Non-priority pollutants were also detected during analysis, and identified using a computer library search.

## POLYCHLORINATED BIPHENYLS (PCB's)

Polychlorinated biphenyls (PCB's) were determined according to procedures described in EPA <u>Guidelines Establishing Test Procedures for the Analyses of Pollutants</u>, Method 608. A 1-liter aliquot of the water was extracted with methylene chloride, dried, concentrated to a 10-ml volume, and analyzed by GC/ECD.

### METALS

Metals were analyzed in acidified solutions using atomic absorption spectrophotometry. Methodology used was according to EPA Methodology for Chemical Analyses of Water and Wastes. Direct sample aspiration and analysis by flame was performed for seven metals (Cd, Cr, Cu, Pb, Ni, Ag, and Zn). Flameless techniques (graphite furnace) were used for Sb, As, and Se. Mercury was analyzed by the cold vapor technique.

### **ALIPHATICS**

Aliphatics (oil and grease) were determined according to the procedures described in Standard Methods for Examination of Water and Wastewater (SM 503A). "Oil and grease" by definition is any material recovered as a substance soluble in trichlorotrifluoroethane. A 1-liter sample was acidified and successively extracted with trichlorotrifluoroethane. Combined extracts were distilled, dried over vacuum, cooled, and weighed.

## CRESYLIC ACID

Samples analyzed for cresylic acid were concentrated (1 1 -> 4 ml) using methodology modified from EPA <u>Guidelines Establishing Test Procedures for the Analyses of Pollutants</u>, Method 608. Five-microliter volumes were injected into a gas chromatograph equipped with a flame ionization detector. Column packing was 81/100 CARBOPACK C/0.1 percent SP 100. Results were compared with appropriate cresylic acid standards (ultra-high purity standards) injected using the same conditions.

# CYANIDE

Cyanides (CN ) were determined according to the procedures described in Standard Methods for Examination of Water and Wastewater (SM 412D). Cyanide concentrations are determined colorimetrically and compared with appropriate CN standards. CN in alkaline solution is converted to CNC1 by reaction with chloramine-T at pH <8. After the reaction is complete, CNC1 forms a red-blue dye on addition of a pyridine-barbituric acid reagent. The absorbance of light is read at 578 nm.

APPENDIX T

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EXTRACTION WELL DISCHARGE CALCULATIONS

### APPENDIX T

#### EXTRACTION WELL DISCHARGE CALCULATIONS

For an unconfined aquifer, and applying Dupuit's assumptions to the Thiem equation (Todd, 1966), the discharge from a well would be:

$$Q = TK \frac{h_o^2 - h_w^2}{\ln(r_o/r_w)}$$

where:

Q = discharge

K = permeability

h = height of water above the impermeable layer

h = height of drawdown in well above the impermeable layer

 $r_0^{w}$  = distance from well to the boundary of area of influence

r = radius of well casing

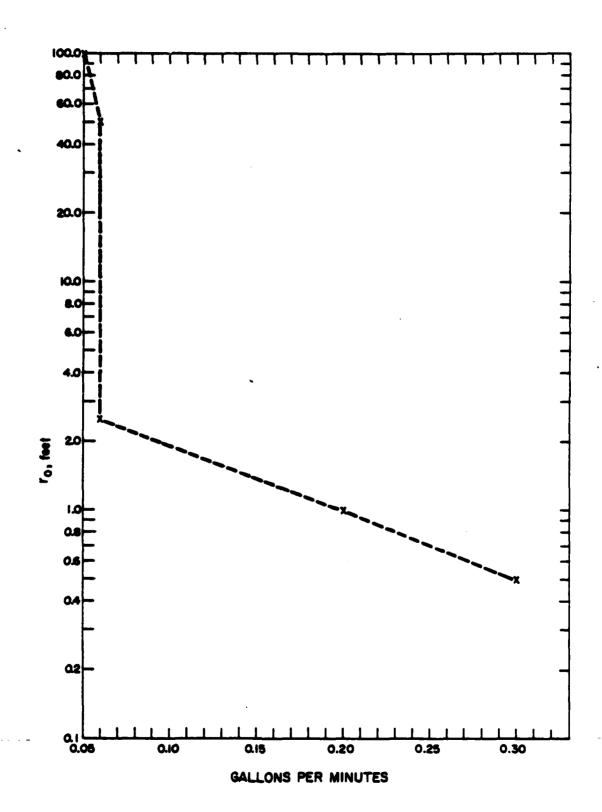
Assuming that  $h_0 = 6$  feet,  $h_W = 1$  foot, K = 4.2 gpd/ft², and  $r_W = 0.17$  foot, the Q's for various areas of influence  $(r_0)$  are tabulated in Table T.1. Note that as the distance between wells is decreased, there is a corresponding increase in flow rate. This relationship between well discharge and radius of influence is illustrated graphically on Figure T.1. The figure indicates that in order to obtain a flow (Q) that would be even marginally acceptable for commercial submersible pumps, the wells would need to be spaced less than one foot apart.

TABLE T. 1

EXTRACTION WELL DISCHARGE CALCULATIONS

Radius of Influence, ro	Discharge from Well, Q (gpm)	
200	0.04	
100	0.05	
50	0.06	
25	0.06	
1	0.2	
0.5	0.3	





APPENDIX U

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## APPENDIX U

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APPENDIX V

GLOSSARY

### APPENDIX V

#### GLOSSARY

- ACTION LEVEL. Constituent concentration above which regulatory investigation is initiated.
- ACTIVATED CARBON. Powdered, granular, or pelleted form of amorphous carbon characterized by very large surface area per unit volume because of an enormous number of fine pores.
- AEROBIC. Requiring the presence of oxygen.
- AIR STRIPPING. Technique for removal of volatile substances from a solution; employs the principles of Henry's Law to transfer volatile pollutants from a solution of high concentration into an air stream of lower concentration.
- AIR TEST. Test in which a section of sewer is pressurized internally with air to determine the rate of air loss and the condition of the sewer with respect to water leakage.
- ALIPHATIC MATERIAL. Grease and oil.
- ALLUVIAL PLAIN. A plain formed by the deposition of detrital materials eroded and transported by a river.
- AQUIFER. Water-bearing geologic formations that are both permeable and porous and so yield water readily to wells.
- AQUITARD. Water-retarding materials which are so slightly permeable that water scarcely moves through them even under high pressures.
- BW. Base production well.
- CABLE TOOLS. Bits and other bottom-hole tools and equipment used to drill boreholes by percussive action, using a cable instead of rods to connect the drilling bit with the machine on the surface.
- CARBON ADSORPTION. Adhesion of gases, solutes, or liquids in an extremely thin layer of molecules to the surfaces of activated carbon.

- CHELATING AGENT. Chemical or complex which causes an ion, usually a metal, to be joined in the same molecule by both ordinary and coordinate valence forces, resulting in the formation of one or more heterocyclic rings in which the metal cation is part of the ring.
- CLOSED BASIN. Basin draining to some depression or pond within its area, from which water is usually lost only by evaporation or percolation.
- COAGULATION. Separation or precipitation from a dispersed state of suspensoid particles, resulting from prolonged heating, addition of an electrolyte, or from a condensation reaction between solute and solvent.
- COMPOSTING. Use of a mixture of decaying organic matter to fertilize and condition the soil.
- CONFINED AQUIFER. An aquifer that contains water under pressure. When punctured by a well, the water rises to a level above the aquifer.
- cu ft. Cubic foot.
- CW. City well.
- DISTILLATION. Process of evaporation and condensation used for separating liquids into various fractions according to their boiling points or boiling ranges.
- DOHS. California State Department of Health Services.
- DOWNGRADIENT. In the direction of the flow of groundwater.
- DRAWDOWN. The magnitude of water level change in a well in response to groundwater withdrawal by pumping, or by seasonal variations.
- EDTA. Ethylenediaminetetraacetic acid.
- EVAPOTRANSPIRATION. Loss of water to the atmosphere by evaporation from lakes, streams, and soil surfaces and by transpiration from plants.
- EXCHANGE. Reaction in which two atoms or ions exchange places in two different molecules or in the same molecule.
- FIXATION. Treatment process involving reactions between waste and certain chemicals, resulting in solids which encapsulate, immobilize, or otherwise tie up hazardous components in waste so as to minimize leaching and render waste nonhazardous or more suitable for disposal.
- FIXATIVE. Fixing agent used to increase the durability of another substance.

- FLOCCULATION. Aggregation or coalescence of solids dispersed in a liquid into a flocculant mass.
- FLUVIATILE. Environments dominated by river action.
- FRENCH DRAIN. Underground passage for water, consisting of loose stones covered with earth.
- ft/log cycle of time. Unit of change in drawdown occurring in a well over one log cycle of time, such as from 10 hours to 100 hours after pumping begins (as plotted on a semi-logarithmic scale).
- gal/day/ft. Gallons per day per foot.
- gal/day/ft2. Gallons per day per square foot.
- gal/min. Gallons per minute.

- GAS SCRUBBING. Removal of gaseous or liquid impurities from a gas stream by the action of a liquid which removes the impurities by dissolving or by chemical combination.
- GC/MS. Gas chromatography/mass spectrometry.
- gpd/ft. Gallons per day per foot.
- gpd/ft2. Gallons per day per square foot.
- gpm. Gallons per minute.
- GRADIENT. The rate of descent or ascent (steepness of slope) of any topographic feature, such as streams or hillsides.
- GRAVEL-PACKED WELL. Type of well used in a water-bearing formation containing a large proportion of fine-grained material which permits the passage of water at low velocity. Gravel is introduced around the screen or intake section of the well to increase the specific capacity and to prevent extremely fine material from flowing into the well.
- GROUNDWATER DISCHARGE. Discharge of water from the saturation zone directly onto the land surface, into a body of surface water, or into the atmosphere.
- GROUNDWATER MOUND. Mound-shaped or ridge-shaped feature of a water table or piezometric surface, usually produced by downward percolation of water to water-bearing deposits.
- GROUTING. Applying or injecting a fluid mixture of cement and water, or a mixture of cement, sand, and water, into a grout hole.
- HARDFAN. A hard, impervious layer of soil cemented together by insoluble materials.

- HARM SYSTEM. Hazard Assessment Rating Methodology.
- HEAD. Height of the free surface of fluid above any point in a hydraulic system; a measure of the pressure or force exerted by the fluid.
- HYDRAULIC GRADIENT. With regard to an aquifer, the rate of change of pressure head per unit of distance of flow at a given point and in a given direction.
- INJECTION WELL. Well to inject gas or water, usually under pressure, into a porous soil or rock aquifer.
- INTERBEDDED. Having beds or strata lying between other beds with different characteristics.
- IRP. Installation Restoration Program.
- LANDFARMING. Application of waste onto land and/or incorporation into the surface soil, including the use of such waste as a fertilizer or soil conditioner.
- LEACHATE. Liquid that has percolated through solid waste or other permeable material and has extracted soluble dissolved or suspended materials from it.
- LEACHING. Separation or dissolving of soluble or particulate constituents from solid waste or other medium by percolation of water or another leaching agent.
- LENS. A geologic deposit that is thick in the middle and converges toward the edges, resembling a convex lens.
- LENTICULAR. Having the shape of a lentil or double convex lens.
- METAMORPHIC. Consisting of material originating from metamorphic rocks which have undergone mineralogical, structural, and chemical changes in response to extreme changes in temperature and pressure.
- ug/kg. Micrograms per kilogram.
- ug/l. Micrograms per liter.
- umho. Unit of specific conductance; also called usiemens.
- mg/kg. Milligrams per kilogram.
- mg/l. Milligrams per liter.
- msl. Mean sea level.

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- MW. Monitoring well
- ND. Not detected.

- PCB. Polychlorinated biphenyl.
- PERCHED WATER. Water in an aquifer which rests on an aquitard that overlies unsaturated but porous material above the normal water table.
- PERCOLATION. Flow of moisture by gravity or hydrostatic pressure through the pore spaces of rock or soil.
- PERMEABILITY. Capacity of a porous rock, soil, or sediment for transmitting a fluid without damage to the structure of the medium.
- PIEZOMETER. A cased boring installed adjacent to a well for measuring water level responses when the well is pumped.
- PLUME. Pathway of chemical constituent flow in underground water systems.
- POINT SOURCE. Any discernible, confined, and discrete source from which contaminants are or may be discharged.
- PORE SPACE. Open space in rock or granular material, not occupied by solid matter. It may be occupied by air, water, or other gaseous or liquid material.
- ppb. Parts per billion.

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- PRESSURE GROUTING. Placing of grout under pressure in void spaces in or around a structure to strengthen the structure or make it more water tight.
- psi (gage). The gage pressure measured by the number of pounds-force exerted on an area of 1 square inch.
- PVC. Polyvinyl chloride.
- RCRA. Resource Conservation and Recovery Act of 1976.
- RECHARGE. The replenishment of water to an aquifer by natural or artificial processes.
- RECOVERY. Rise of the water level in a well to its previous level before drawdown occurred.
- REPRESENTATIVE SAMPLE. Any sample of material which is statistically equivalent to the total material in composition and in physical and chemical properties.
- ROTARY DRILLING. Method of drilling wells in which the drill bit is rotated in the hole. The rock is cut or abraded by knives or hard material set in the bottom of the bit and the waste material is carried away by water or sud forced down the inside of the drill pipe and up on the outside.

- ROTARY DRYER. Long steel cylinder, slowly revolving, with its long axis slightly inclined, through which the material to be dried passes from inlet to outlet, tumbling about; moisture is removed by rising hot gases.
- ROTARY KILN. Long cylindrical kiln lined with refractory, inclined at a slight angle, and rotated at a slow speed.
- RMQCB. California State Regional Water Quality Control Board.
- SECURE LANDFILL. Permitted hazardous waste disposal site.
- SEDIMENTARY TROUGH. A narrow, elongated topographic depression in which sediments are deposited or trapped by discharging streams.
- SLURRY. Free-flowing, pumpable suspension of fine solid material in liquid, resembling thin watery mud.
- SPECIFIC CAPACITY (SPECIFIC YIELD). The quantity of water which a unit volume of aquifer, after being saturated, will yield by gravity; a measure of the water available to wells.
- SPECIFIC CONDUCTANCE. Conductivity of a solution as measured using a standard 1-cm cell; expressed in  $\mu$ mho ( $\mu$ siemens) at 25°C.
- STATIGRAPHIC COLUMN. A vertical cross-section of rocks.
- STRATUM. In geology, a single bed or layer of rock which is more or less homogeneous.
- TCE. Trichloroethylene.

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- TRANSMISSIBILITY. The rate at which water flows through a foot of aquifer material.
- TUFF. Consolidated volcanic ash, composed largely of fragments (less than 4 millimeters) produced directly by volcanic eruption; much of the fragmented material represents finely crushed crystals and rocks.
- UNCOMFINED AQUIFER. An aquifer containing water under hydrostatic pressure. When punctured by a well, the water will not rise above the initial level.
- UPGRADIENT. Directional source of groundwater flow to a given area; in the direction opposite to the flow of groundwater.
- VOA. Volatile organic analysis.
- VOA BOTTLE. A 25-ml glass vial with a Teflon screw cap used to store volatile organic compounds for analysis.
- VOC. Volatile organic compound.

- VOID. Pore or open space in rock or granular material, not occupied by solid matter; also called pore space.
- VOLATILE. Evaporating readily at normal temperatures and pressures.
- WATER LEVEL. Free water surface of a body of water.

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- WATER TABLE. The boundary between the zone of saturation and the zone of aeration.
- WELL CASING. Metal pipe used to line the borehole of a well.
- WELL LOG. Chronological record of the soil and rock formations encountered in the operation of installing a well, with either their thickness or the elevation of the top and bottom of each formation given.
- WELL POINT. Device consisting of a perforated metal tube or screen attached to a fitting or driving head end, and designed to permit passage of water; used to remove water from the ground.
- WELL SCREEN. Special form of slotted or perforated well casing that admits water from an aquifer consisting of unconsolidated granular material while preventing the granular material from entering the well.

